



BOSTON STATE COLLEGE

General Information /Catalog

1977-78







Tower Building

Student Directory

Building Code Letter — Room numbers are listed to correspond to the first letter of the buildings in which they are located.

MAIN CAMPUS — 625 Huntington Avenue, Boston, Ma. 02115 - Tel. No. 731-3300.

EMERGENCY — 104A Ext. 322; Fenway Lobby Ext. 8-236.

A - Administration

C - Collins

F - Fenway Campus - 174 Ipswich Street

FB - Faculty Building - 640 Huntington Avenue

G - Gymnasium

K - Kennedy

T - Tower

For general information: Office of the Dean of Students, Room 202 Kennedy Building, Tel. No. 731-3300, Ext. 246

Academic Advising	202K	C. Joyce
Admissions	202A	E. Zaleskas
Affirmative Action Office and Title IX Office	301A	S. Wickman
Alumni	274N	J. Ryan
Bookstore	Tower Building	
Campus Ministry	210K & 316F	
Day Care	174N	M. Williams
Emergency	104A, Fenway Lobby	Security
Evening Counseling	206A	
F.I.P.A. (Fair Information Practices Act)	203A	R. McCarthy
Financial Aid	210K	I. Wells
First Aid	Fenway & Administration Lobbies	Security
Foreign Student Advisor	202K	Dean of Students
Grades and Records	201A	Registrar
Graduation	202K	C. Joyce
Graduate Studies	210A	T. Hegarty
I.D.'s	104A	J. Stevens
Information	202K	Dean of Students
International Study	FB4	R. Grinnell
Intramurals	311G	M. Singleton
Lost and Found	104A, Fenway Lobby	Security
Parking	104A	Security
Peer Counseling	300F	
Personal Counseling	210K	S. Johnson
Placement	302A	T. Broderick
Program of Continuing Education	109A	
Publications, Publicity	304A	J. Vaccaro
Reading Services	310A	L. Hanley
Scholarships	202K	Dean of Students
Security	Fenway & Administration Lobbies	
Sports Information	309G	D. Roberts
Student Government	Kennedy Lounge	Ext. 232, 731-1795
Summer School	109A	
Testing/CLEP	210K	T. Sloat
Transcripts	210A	Registrar
Transfer of Credit	202K	C. Joyce
Tuition	108A	M. White
Veterans Affairs	200K	Veterans Office
VISA Information - Foreign Students	202A	M. Mahoney
Withdrawal from College	202K	Dean of Students
Withdrawal from Courses	210A	Registrar
Work Study	210K	I. DiVincenzi

BOSTON STATE COLLEGE

This catalog is current as of September 1, 1977. The college reserves the right to make changes in programs, policy, regulations, tuition and fees as circumstances dictate, subsequent to publication.

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General Information

In September, 1977, Boston State College will begin its 126th year of education for service. Under the direction of the Board of Trustees of the Massachusetts State Colleges, the college operates as a commuter institution, offering programs in the liberal arts, in teacher education and in career programs.

A HISTORY OF THE COLLEGE

In 1851, Nathan Bishop, first superintendent of Boston schools, recommended the establishment of a normal school. A year later the Boston City Council passed an act establishing the Boston Normal School as a pretext to obtain some education for young women beyond training in grammar grades. At that time there was only one other city normal school and only seven other public institutions of that nature in the United States, three of which were in Massachusetts.

In the same year (1852) 86 girls stepped out of their grammar school classes to embark on a "glorious new profession of teaching" in the Adams School House on Mason Street.

The first president was Loring Lothrop. Twenty years later Dr. Larkin Dunton was named as first headmaster of the Normal School in its independent existence. Upon his death in 1899, after 27 years of leadership, he was succeeded by Wallace C. Boyden who had acted as assistant to Dr. Dunton for many years.

In 1888 the Normal School course was extended from its original length of one year to 1-1/2 years, and in 1899 kindergarten training was added as a supplementary course. Kindergarten training was in its infancy then, and the Boston Normal School was the first public institution to give training in that line.

In 1892 the time required for matriculation was increased to two full years, and in 1913 it was lengthened to three years with greater attention given to kindergarten work. During the same year the University Extension Commission, after careful inspection, certified credit toward the degree of Associate in Arts in seven courses out of the 17 offered.

In 1922, with the addition of two four-year courses, an opportunity was given to students to qualify for the degrees of Bachelor of Education and Bachelor of Science in Education.

Then in 1924, the school's name was changed to the Teachers' College of the City of Boston. In 1926 the college was granted the right to award a Master of Education degree.

In 1942 the college was accredited by the American Association of Colleges for Teacher Education under the leadership of Dr. William H.J. Kennedy, president of the college from 1929 to 1948.

In 1948 men were admitted to the four-year course in Elementary Education following a 44-year wait, since men had been admitted to the Normal School in 1904. It was also during this year (1948) that Dr. William F. Looney took over the helm as the college's fifth president.

Probably the most significant event in the history of the college occurred in 1952 when, by a joint act of the Boston School Committee and the Massachusetts General Court, the Teachers' College became a state college under the Massachusetts Department of Education. It was now called the State Teachers College at Boston.

In 1960, the Massachusetts legislature passed an act eliminating the word "teachers" from the name of the state supported college. The State Teachers College at Boston thus became State College at Boston with the power to grant Bachelor of Arts and Bachelor of Science degrees in non-education courses.

Dr. John J. O'Neill succeeded Dr. Looney as the college's sixth president on September 1, 1968, the same year the college came to be known as Boston State College.

In May, 1971, Kermit C. Morrissey was elected president.

PURPOSE

The motto of the college is "Education for Service." In both its liberal arts and career programs the college aims at the fullest possible development of the individual through general education, professional preparation, and college activities.

The graduate should be prepared for full and effective participation in the life of the community, state, and nation. To fulfill this purpose the college aims to provide educational opportunities for as many qualified students as its facilities and resources will allow.

ACCREDITATION AND AFFILIATION

Boston State College is accredited by the New England Association of Schools and Colleges.

The New England Association of Schools and Colleges accredits schools and colleges in the six New England states. Membership in one of the six regional accrediting associations in the United States indicates that the school or college has been carefully evaluated and found to meet standards agreed upon by qualified educators. Colleges support the efforts of public school and community officials to have their secondary schools meet the standards of membership.

In addition, most of the Teacher Education Programs offered on the undergraduate level have been approved by the National Association of State Directors of Teacher Education and Certification. Satisfactory completion of the Teacher Preparation Program leads to certification in 31 states including Massachusetts.

Teacher Preparation Programs certified by NASDTEC are: Elementary Education Department (Elementary Education, Early Childhood Education, Urban Education); Department of Physical Education and Recreation for Women; Secondary Education Department, Biology, English, Mathematics, Foreign Languages, General Science, History, and Regional Studies (Earth Science, Geography).

Boston State College also holds institutional membership in the following organizations:

American Association of Colleges for Teacher Education
Eastern States Association of Professional Schools for Education
New England Teacher Preparation Association
Association of State Colleges and Universities
American Association of Colleges

BOARD OF TRUSTEES

Mr. George H. Ellison, Chairman
Mr. Arthur J. Gartland, Vice-Chairman
Mr. T. Dustin Alward
Mrs. Ruth L. Briggs
Mr. John M. Cataldo
Mr. Carlton W. Edmonds, Jr.
Mr. Walter H. Flinn
Mrs. Alette E. Reed
Mrs. Janet C. Slovin
Ms. Melissa A. Tillman
Mrs. Helen C. Vanderbilt
Mr. John T. O'Connell, Student Trustee

Chancellor James J. Hammond
Massachusetts State College System

GENERAL COLLEGE POLICIES

Admission Procedures

1) **Matriculation:** Boston State College offers day and evening programs leading to a Bachelor's degree. Matriculation begins when a student has been officially admitted to the college, registered and paid tuition.

2) **Non-Matriculation:** All part-time students seeking an undergraduate degree from Boston State College must obtain matriculated status no later than the completion of 15 semester hours credit at the institution. Matriculation information may be obtained from the Admissions Office.

3) Requirements:

FRESHMEN CANDIDATES

Candidates for admission to the Freshman Class must furnish evidence of completion or anticipated completion of a level of education equivalent to four years of high school. All freshmen must furnish the following documents:

- A completed State College application
- A transcript of high school work including three complete years and at least the first marking period of the senior year or a copy of an equivalency certificate
- The results of the Scholastic Aptitude Test (SATs)
- The results of the Student Descriptive Questionnaire (part of application for registration of SATs).

ALL APPLICANTS FOR THE FRESHMAN CLASS MUST SUBMIT THEIR APPLICATIONS BY MARCH 1 FOR THE FALL SEMESTER AND DECEMBER 1 FOR THE SPRING SEMESTER.

TRANSFER CANDIDATES

Candidates for admission to the college with advanced standing must submit the following documents:

- A completed State College application
- Official transcripts from all institutions of higher education attended.

ALL APPLICANTS SEEKING ADMISSION TO BOSTON STATE COLLEGE AS TRANSFER STUDENTS MUST FILE APPLICATIONS BY APRIL 1 FOR THE FALL SEMESTER AND DECEMBER 1 FOR THE SPRING SEMESTER.

Transfer credit is awarded only for grades of C or better obtained in courses pertinent to the programs offered at the college. Credit will be awarded only from colleges which are accredited by a regional accrediting association or from colleges which are recognized as candidates for accreditation by a regional accrediting association. No more than 64 semester hours will be accepted in transfer from regionally accredited two year institutions. No more than 90 semester hours will be accepted in transfer from four year institutions regionally accredited. All transfer students must earn at least 30 semester hours at Boston State College. The college is a member of the Commonwealth Transfer Compact which provides for ease of transfer students to Boston State College from Massachusetts Community Colleges, who have completed an appropriate Associate Degree program.

Students with an Associate of Arts degree generally have satisfied the General Education requirements of Boston State College and usually have no difficulty achieving third year status. Recipients of the Associate of Science degree have specialized in some area of concentration which is not equivalent to the General Education requirements of Boston State College. In order to implement the intent of the Transfer Compact, when a student has successfully completed the requirements of an Associate of Science degree from an accredited two year college, Boston State College accepts the area of concentration (21 to 24 semester hours) as fulfilling the minor requirement toward the Boston State College degree.

Students obtaining a transfer minor must complete a major in a field other than the one in which the minor was awarded.

In no case does a student transferring from a two year institution receive more than two years of transfer credit from the two year institution.

FOREIGN STUDENT ADMISSION

FRESHMEN APPLICANTS MUST FURNISH THE FOLLOWING DOCUMENTS:

- A completed state college application, filed not later than January 1 for the following fall semester (no admission in the spring semester)
- Evidence of high school graduation or its equivalent — all foreign transcripts must be officially translated into the English language and submitted in duplicate to the Credentials Evaluation Service, P. O. Box 24679, Los Angeles, California 90024. Current fee is \$25.00.
- Results of the Scholastic Aptitude Test
- Results of the Student Descriptive Questionnaire (part of registration form of the Scholastic Aptitude Test)
- For non-English speaking students, results of the TOEFL tests

- All Commonwealth of Great Britain and former Commonwealth countries, must submit the results of the General Certificate of Education (GCE), (0) Ordinary Level.

TRANSFER CANDIDATES

TRANSFER APPLICATIONS ARE PROCESSED IN THE SAME MANNER AS TRANSFERS WITHIN THE UNITED STATES, NAMELY:

- A completed State College Application, (filed not later than January 1 for the following semester for all students studying outside the United States). Students transferring from an accredited institution within the United States will follow the April deadline for the Fall semester and December 1 for the Spring semester.
- Official Transcripts from all institutions of higher education attended.
- For non-English speaking students, results of the TOEFL tests
- Results of the A level (Advanced) General Certificate of Education for all students studying in the Commonwealth countries or former Commonwealth countries.
- Official college transcripts, except from the Commonwealth of Great Britain or former Commonwealth countries must be submitted in duplicate, officially translated into English to the Credentials Evaluation Service, P.O. Box 24679, Los Angeles, California 90024 with a check in the amount of \$25.00.

FOREIGN STUDENT ADVISEMENT

An advisor for foreign students will assist them with their programs as well as adjustment to college life in America. Students whose native language is not English are advised that the Department of Foreign Languages offers LL120-121 *English As A Foreign Language*, a course specifically designed to improve students' proficiency in English oral and aural skills.

TRANSFER STUDENT ADVISEMENT

All transfer students must seek evaluation and academic counseling prior to or before the end of their first semester. General acceptance by the Admissions Office of those courses designated "electives" does not guarantee they will be applied towards a major or minor.

Students are to make an appointment to see their major and minor department chairpersons for final verification of applicable courses.

4.) **College Academic Program Sharing (CAPS):** CAPS is a program designed to provide Massachusetts State College System students the opportunity to study at another college within the system in order to add a different or specialized dimension to their undergraduate studies. Through CAPS, a student may take from 3 to 30 semester hours of college credit at another state college without going through formal registration procedures and without a formal transfer credit approval process.

Interested students should check with the Registrar before May 10, for any fall semester and before December 10 for any spring semester.

5.) **Advanced Placement:** Students who have completed an advanced placement course in high school AND have obtained a score of 5, 4, or 3 on the Advanced Placement-Test of the College Entrance Examination Board (CEEB) will not be required to take the corresponding required course at Boston State College.

6.) **College Level Examination Program (CLEP):** The *College Level Examination Program* (CLEP) offers a series of examinations designed to test knowledge in various academic subjects. Boston State College recognizes successful achievement on these examinations in lieu of taking the courses and offers credit toward graduation as follows:

General Examination	Boston State College General Education Requirement Satisfied		Semester Hours
English Composition	E101		3
Humanities	Group III Humanities		3
	Free Elective		3
Mathematics	Group III Natural Science/Math		3
	Group II Natural Science/Math		3
Natural Science	Group II Natural Science/Math		6
Social Sciences/History	Group III Social Science		3
	Free Elective		3

<i>Examination</i>	<i>Minimum Score for Awarding Credit</i>	<i>Boston State College Equivalencies</i>	<i>Semester Hours</i>
American Government	47	GV101	3
American History	50	H201-202	6
Biology	49	BI101-102	6
College Algebra-Trigonometry	49	M103	3
Educational Psychology	47	PY203	3
English Composition	48	E101	3
Introduction to Psychology	47	PY101	3
Geology	49	RS101-102	6
Child Psychology	47	PY201	3
Introductory Accounting	50	EC103-104	6
Introductory Calculus	48	M105-106	7
Introductory Economics	48	EC101-102	6
Introductory Sociology	46	SO201	3
Money and Banking	48	EC207	3
Statistics	49	PY103	3
Tests and Measurements	46	ED431	3
Western Civilization	50	H101-102	6

The above is not a complete list, CLEP examinations in other courses (subjects) may be taken for credit.

Examinations are administered monthly. Information and applications may be obtained from the Counseling Service.

7) **National League of Nursing Examinations:** National League of Nursing Examinations are given through the Nursing Department to registered nurses. They are required to take the league examinations in medical-surgical, maternal-child health and psychiatric nursing and to score at the 50th percentile or better in order to be awarded 20 semester hours of nursing credit. If an examination is failed, it may be repeated once after a six-month interval.

Additional National League Examinations are available to registered nurses as follows:*

Introduction to Chemistry I, II	CH107-108	8 s.h.
Anatomy & Physiology I, II	BI213-214	8 s.h.
Developmental Psychology II (Child Psychology)	PY-NU201	3 s.h.
Medical Microbiology	BI312	4 s.h.

*Students must score at the 50th percentile or better to be awarded credit.

TUITION

Each entering full time undergraduate student must pay a tuition deposit of \$50.00 following notification of acceptance. This deposit is non-refundable and will be credited to the student's first semester tuition charges. ALL PAYMENTS TO THE COLLEGE MUST BE BY BANK CHECK OR MONEY ORDER ONLY. TUITION — PAYABLE BEFORE THE BEGINNING OF EACH SEMESTER.

For residents of Massachusetts:

- Full-time undergraduates — \$250 per semester
- Part-time undergraduates — \$20 per credit

For non-residents of Massachusetts:

- Full-time undergraduates — \$625 per semester
- Part-time undergraduates — \$53 per credit

FEES

For full-time and part-time:

- Student Activities Fee — \$14.50 each semester
- Athletic Fee — \$18 fall semester
\$19 spring semester
- Library Fee — \$5 each semester
- Late Payment Fee — \$10
- Placement Fee — \$5 - graduating students only
- Educational Services Fee — \$10 - entering students only
- Every undergraduate student is required to pay these fees. None is

refundable. Every student thus becomes a member of the Student Government Association with the privileges of participation in all its activities and programs.

Tuition information on Program of Continuing Education consult Office of Special Programs.

TUITION REFUND POLICY

Full-Tuition

Must withdraw from the College by a letter to the Dean of Students Office before the first day of classes.

Two-thirds Tuition

Must withdraw from the College by a letter to the Dean of Students during the first week of classes.

One-half Tuition:

Must withdraw from the College by a letter to the Dean of Students during the second week of classes.

One-third Tuition

Must withdraw from the College by a letter to the Dean of Students during the third week of classes.

No refunds will be made after the third week of classes.

FEE REFUND POLICY

The \$50.00 deposit paid at the time of admission or readmission is a non-refundable fee.

Other fees are not refundable unless the student withdraws by letter to the Dean of Students before classes begin.

EVENING UNDERGRADUATE COLLEGE

Those students wishing to pursue a baccalaureate degree in selected programs may take courses either as a full-time or part-time student in the later afternoon and evening hours.

THE GRADUATE SCHOOL

Drawing on the course work through the Program of Continuing Education, the Graduate School offers programs leading to the degree of Master of Arts, Master of Science and Master of Education as well as the Certificate of Advanced Graduate Study. The Graduate School publishes its own *Graduate Studies Catalog*, which, in addition to other information on graduate programs, including course descriptions, is available in the Graduate Office.

SPECIAL PROGRAMS

The office of Special Programs is composed of several divisions:

The Program of Continuing Education offers an extensive range of undergraduate and graduate courses during the late afternoon, evening and Saturday morning hours each spring and fall semesters at the main campus as well as at over a dozen satellite campus locations in addition to day and evening courses during two intensive summer sessions. The Program is specifically designed to encourage part-time educational studies for self-enrichment or professional advancement. The emphasis of the Program is to provide adult students with the opportunity to attend college while holding a job or having other responsibilities which make it difficult to attend during the day.

The Urban Learning Center's Flexible Admissions Program (12:30-4:30 P.M., Monday - Thursday) is designed to alleviate educational deficiencies and to assist high school juniors or seniors and adults with lackluster academic records by involving them in an intensive remedial program consisting of a review of the basics in English, math, reading, and science. *The Flexible Admissions Program* student is placed in a dynamic environment which provides individualized attention by highly competent instructors and counselors using innovative teaching techniques and a unique approach to learning. There is no charge for this program, and it runs 30-35 weeks.

The After School Reading Program is designed to improve the reading skills of children ages 5 to 11 (first to fifth graders), to encourage them to read for pleasure at home, and to intensify their interest and involvement with books.

The G.E.D. (General Educational Development) Program is designed to afford a high school equivalency certificate to persons who do not have a high school diploma. The program is open to any person 17 1/2 or older, free of charge.

The Flexible Campus Program offered by the Public Schools of Boston is a variation of the Open Campus program now a part of the curriculum on many of the nation's high schools. In essence, the Flexible Campus Program utilizes university, business and community resources in an effort to provide a meaningful educational experience for interested and capable high school students.

Flexible Campus Programs vary widely among the twelve Boston High Schools involved. In general, however, most plans allow carefully screened seniors to audit courses in a number of local colleges and universities (Boston College, Simmons College, Northeastern University, Wellesley College, Emerson College) or to become involved in local commercial enterprises and hospitals in order to gain insight into the value and possibilities of those areas as future careers.

Here at Boston State College we have accepted a limited number of representative students from 19 area high schools including Boston Latin School, Brighton High School, Dorchester High School, East Boston High School and Girls High School. Each student has been screened and recommended by the flexible campus coordinator of his/her respective high school. A grant from the Board of Trustees has enabled us to allow these students to register and receive credit for work successfully completed. This procedure has not only resulted in greater motivation for the student but also enables both the student and the college to measure the value of future involvement in the area of higher education.

The Open College is a program of off-campus instruction, using multi-media study packages, a unique approach to non-traditional education in Massachusetts. The goal is to reach those students whose work schedules, family obligations and learning habits are not served by traditional formal "on-campus" programs.

Students have the opportunity to do most of their course work at home. However, at local "learning centers" there will be other activities and resources designed to give them the opportunity to work with a small group of fellow students who are also studying in the program. By self-study, workshop, or group seminar, study will be guided by materials designed to give these students an academic experience interesting and varied.

SUMMER SESSIONS

The Program of Continuing Education (PCE) offers two summer sessions, each approximately one month long. Graduate, undergraduate or non-degree candidates may elect to attend one or both sessions in the morning or evening. Classes meet Monday through Thursday, for two hours each day. Laboratory classes, however, are specially scheduled. For further information contact the Program of Continuing Education.

MASSACHUSETTS STATE POLICY ON NON-DISCRIMINATION

It is the stated policy of the Board of Trustees of the Massachusetts State Colleges that in matters of college admissions, the employment of professional and non-professional personnel, and all other personnel matters in the State Colleges, individuals will be evaluated on their merits without respect to their race, color, creed, national origin, age, or sex, as prescribed in applicable federal and state laws.

Boston State College is an Affirmative Action Employer and encourages women and minority group members — male and female — to apply for positions.

FAMILY EDUCATIONAL RIGHTS AND PRIVACY ACT OF 1974

This Act intends to protect the privacy of parents and students with regard to access to records, release of such records, and the opportunity for a hearing to challenge such records should they be inaccurate, misleading, or inappropriate. In addition parents and students must be informed of their rights and the procedures available to them.

A. The following records are available for inspection by students presently enrolled, former students and alumni:*

- 1.) Academic (in Registrar's and Dean of Students' Office)
- 2.) Admissions (in Admissions Office)
- 3.) Counseling, advising and Disciplinary (in Dean of Students' Office)
- 4.) Financial (in Financial Aid Office)
- 5.) Placement (in Placement Office)
- 6.) Veterans (in Veterans Office)

*Faculty and staff members, authorized Federal/State Officials auditing Federal/State supported education programs, accrediting organizations and parents of a student listed as a dependent on Federal Income tax Return may also be granted access to student records.

B. The following records may not be examined:

- 1.) Personal files of faculty and administrative personnel
- 2.) Law Enforcement records which are separate from students educational records and are available only to law enforcement officials.
- 3.) Medical, psychiatric, or psychological records.
- 4.) Employment records of non-student employees.
- 5.) Parents' Financial records.
- 6.) Confidential evaluations and recommendations of students placed in files prior to January 1, 1975. A student may waive the right of access to evaluations and recommendations submitted on or after January 1, 1975.

C. Procedure to Access of Records:

- 1.) A request to inspect a record shall be made in writing to the institutional office which maintains the record.
- 2.) Within 45 days the office must inform the student when the record will be available.
- 3.) Every office is obligated to tell a student who has accessed his record and why, and keep a record of whoever has had access to the record.
- 4.) Students must show an I.D. before being shown their records. The examination will be supervised, confidential data as outlined in B. 1-6 will be removed before examination. Copies of records are issued only upon payment of the established fee for duplicating copies.

D. Record Keeping

The Academic Record is the only permanent record and is maintained in perpetuity. All other records will be expunged in accordance with the policies of the Massachusetts State College System and the laws of the Commonwealth.

E. Destruction of Records

Folders containing educational, admissions*, financial aid, medical** and other "non-permanent records" should be retained until two years after the date of graduation or the date the student would have graduated and then destroyed in the academic semester unless otherwise designated by the President (such as Placement files).

F. Challenges

After reviewing a record, a student has the right to challenge the contents of the record as incorrect or inappropriate. The keeper of the record shall investigate the student's charge and when necessary, make the necessary corrections. If the student is not satisfied, then the matter is to be referred to the Dean of Students, according to the current student grievance procedure.

*Admissions records, even for those not accepted, must be held for three years, according to Massachusetts Commission Against Discrimination policy.

**Medical records held by a college clinic or infirmary must be retained for thirty years following the student's graduation pursuant to G.L. c.111 70.

TITLE IX

Boston State College expresses its intent to comply with the regulations established to effectuate Title IX of the Higher Education Amendments of 1972 as amended by Public Law 93-568. It is our intention to adhere to the letter and spirit of the law with a policy of non-discrimination on the basis of sex.

The Affirmative Action Officer is also the Title IX Officer of the College and is responsible for coordinating the activities of the College

in order that they may be in compliance with Title IX. Copies of the Title IX Law are available in the Affirmative Action Office, the Office of the Vice-President, the Office of the Dean of Students, and the Office of the Director of Athletics. Should any student, faculty member or employee of the college wish to file a complaint under the provisions of Title IX, it should be lodged with the Title IX Officer.

MASSACHUSETTS TRESPASS ACT

Boston State College is governed by the Massachusetts Trespass Act, enacted June 1, 1969.

Trespassing Upon the Land of Certain Institutions

Whoever willfully trespasses upon land or premises belonging to the commonwealth, or to any authority established by the general court for purposes incidental to higher education, appurtenant to a public institution of higher education, the state prison, state prison colony, Massachusetts reformatory, reformatory for women, state farm, Tewksbury Hospital, Soldier's Home in Holyoke, any public institution for the care of insane, feeble-minded or epileptic persons, any Massachusetts school or state charitable institution, or upon land or premises belonging to any county and appurtenant to a jail, house of correction or courthouse, or whoever, after notice from an officer of any of said institutions to leave said land, remains thereon, shall be punished by a fine of not more than \$50 or by imprisonment for not more than three months.

DUE PROCESS

The Boston State College Community has a right and an obligation to insist that its members conduct themselves according to broadly accepted standards of good behavior and reserves the right to dismiss students if their behavior is found to be unacceptable.

In all disciplinary matters, the college will afford students the right of due process and will presume the innocence of students until they are proved guilty.

Students are subject to college discipline for the following types of misconduct:

1. Dishonesty, such as cheating, plagiarism, or knowingly furnishing false information to the college.
2. Forgery, alteration, or misuse of documents, records, or identifications.
3. Obstruction or disruption of teaching, research, administration, disciplinary procedures, or other activities.
4. Physical abuse or conduct which threatens the health or safety of any person on college-owned or controlled property or at college-sponsored or supervised functions or, during times of campus emergencies.
5. Theft of or damage to property of the college or property of others while on college premises and, during times of campus emergencies, wrongful destruction of or damage to property within one mile of the campus or other facility.
6. Unauthorized entry to or use of college facilities, equipment or resources.
7. Violation of college policies or of campus regulations, including campus regulations concerning the registration of campus organizations, the use of college facilities, or the time, place, and manner of public expression.
8. Manufacture or attempted manufacture of or use, possession, or distribution of narcotic or dangerous drugs, including but not limited to marijuana and lysergic acid diethylamide (LSD), except as expressly permitted by law.
9. Disorderly, lewd or indecent conduct or obscene expression on college-owned or controlled property or at college-sponsored or supervised functions.
10. Participation in mass disorder, disturbance of the peace, or unlawful assembly of a college campus or facility or at a college-sponsored or supervised function or, during times of campus emergencies.
11. Failure to comply with directions of a college official or other public officials acting in the performance of their duties while on campus or other college facility or, during times of campus emergencies, resisting, delaying, or obstructing such college or

other public officials in the performance of or the attempt to perform their duties.

All cases of student misconduct shall be referred first to the Dean of Students for investigation. The Dean shall immediately inform the accused student of the charges against him and of his rights in such matters, and shall require the student to present himself for an explanation of his conduct.

In his interview with the Dean, the student may select a member of the faculty to sit in as a third party observer or he may request that a transcript of the proceedings be kept. If the student opts for the third party observer, the Dean may choose one student to sit in as an additional observer. The student may present witnesses in his behalf to the Dean and he shall not be required to give testimony against himself. On the basis of the investigation, the Dean will render a judgment in the case. The student has the option of accepting the judgment of the Dean (and its related penalties if the finding is against the student) or appealing the decision to the *College Review Board*.

If the student elects to appeal his case to the College Review Board, he must so inform the Chairman of the Board *in writing* within five college days after receiving the finding of the Dean. While the appeal is being heard by the Board, whatever penalties may have assessed by the Dean shall not be applied.

The College Review Board shall be made up of nine members consisting of: three administrative officers of the college appointed by the President of the College, but not to include the Dean of Students; three tenured faculty members to be appointed by the President and approved by a majority vote of the Student Council. The faculty members shall sit for two year terms on the Board, the students for one year terms. The Board shall elect its own chairman.

To insure that the student receives a fair and impartial hearing of his appeal, the following safeguards to protect the student's rights shall be observed by the Review Board:

1. The Chairman of the Review Board shall inform the student by registered return receipt requested mail of the charges against him.
2. The student shall be granted a hearing in not less than 10 nor more than 20 college days after he requests it.
3. The student shall have the right to call witnesses in his behalf.
4. The student shall not be required to be a witness against himself.
5. The student shall have the right to examine witnesses.
6. The decision of the Board must be based on evidence.
7. The Board's decision as to guilt or innocence shall be by majority vote.
8. The Board's decision as to the level of punishment shall be by majority vote except in the case of severance where 2/3 majority is required.
9. A transcript of the proceedings shall be maintained during the course of the hearing.
10. Every aspect of the proceedings shall be kept strictly confidential.

Levels of Penalty

1. Admonishment — The student will be firmly advised that his behavior is unacceptable, and that a recurrence of it will lead to more serious action.*
2. Disciplinary Probation — The student will be advised that his behavior is unacceptable and will be given the remainder of the current term to show by his good behavior that a more stringent penalty should not be imposed. During the period of probation the student will be required to terminate his association with all extracurricular activities. In certain instances disciplinary probation may be continued beyond the remainder of the term in progress.*
3. Suspension — The student will be denied the right to continue his studies at the college for the remainder of the term in progress. His grades for the term will be W. He will be permitted to resume his studies for the next regular term.
4. Dismissal — The student's relationship with the college will be terminated for a period of at least one academic year from the date of dismissal. At the end of that time, he shall have the right to apply for re-admission.
5. Severance — The student's relationship with the college will

be terminated indefinitely. He shall be denied the right to apply for re-admission.

**In cases where academic honesty is the issue and the student is found guilty but receives a penalty less than suspension, failure of the course in question may be an additional penalty.*

STUDENT GRIEVANCE PROCEDURE

In order that students may seek redress of any alleged injustices by members of the college staff the following procedures are to be employed:

1. Concerning Grades or Classroom Procedures

A. Department Chairperson/Program Director

Within 30 calendar days from the date of the alleged classroom injustice or within 30 days from the mailing date of grades by the Registrar, a student is to advise *in writing* the appropriate Chairperson or Program Director of the specific grievance. The Chairperson/Program Director shall meet with the student within 10 days from the reception of the grievance and attempt to settle the problem.

If the student is not satisfied at this level, then

B. Dean of Students

Within 10 calendar days from the meeting with the Chairperson/Program Director, the student shall bring the grievance *in writing* to the Dean of Students (or, in the case of the Dean's absence the Associate Dean of Students). Within 10 calendar days, the Dean of Students shall set up a meeting at which the student, the instructor and the appropriate Chairperson/Program Director are to be present.

If the student is not satisfied with the results of this meeting, then the student shall appeal *in writing* within 5 calendar days to the

C. Academic Dean

The Academic Dean shall, within 10 calendar days, hear the case and render a decision.

D. This decision may be appealed by either party to the President of the College within 30 calendar days.

2. Other Grievances

A. A student who wishes to bring a grievance against a member of the College staff shall contact the Dean of Students *in writing* within 10 calendar days of the alleged date of the injustice.

B. Within 10 calendar days from the reception of the grievance the Dean of Students shall set up a meeting with the student and the accused. If the student is not satisfied with the results of this meeting, then the student shall appeal *in writing* to the

C. Academic Dean, who shall within 10 calendar days hear the case and render a decision.

D. This decision may be appealed by either party to the President of the College within 30 calendar days.

Students in the Program of Continuing Education report Grievances to the Dean of the Program of Continuing Education. Graduate Students report Grievances to the Dean of Graduate Studies.

COLLEGE CANCELLATION

Cancellation of classes are announced on the following radio stations: WHDH, WBZ, WEEI, and WRKO.

VENDING

No one may sell any article without obtaining written permission from the Student Government Association for a specified place and time on campus and bringing this written permission to the Dean of Students for confirmation.

Student Services

FINANCIAL AID PROGRAMS

Boston State College administers a variety of financial aid programs. These programs are available only to those students who are citizens or permanent residents of the United States. All financial assistance is awarded for one academic year only. Deadlines for completion of

applications which must be filed in the Financial Aid Office are:

SUMMER AND FALL TERMS — PRIOR TO APRIL 15

SPRING SEMESTER ONLY — PRIOR TO NOVEMBER 15

1. Federal Aid

BASIC GRANT (BEOG): Any student who meets the qualifications of being enrolled in an undergraduate program and who has not received a Bachelor's degree should apply for the BASIC GRANT. Notification of Eligibility will be mailed directly to the student's home. Students must promptly return the AWARD NOTICE to the Financial Aid Office.

NATIONAL DIRECT STUDENT LOAN (NDSL): Students may apply for this program if they are presently attending or plan to attend Boston State College in a degree granting program. Students must carry at least half the normal academic course load (6 semester hours). Students must establish financial need for this program by filing a Parents' Confidential Statement (PCS) or a Student's Financial Statement (SFS). This loan must be repaid. The terms of repayment are: Nine months after the borrower ceases to carry at least half the normal academic course load in undergraduate or graduate school, the loan becomes due. Interest of 3 per cent must be paid once the repayment period begins. Repayment may be deferred under special circumstances. Explanation will be given upon receipt of the loan.

COLLEGE WORK STUDY: This program is available to both graduate and undergraduate students. Students are assigned to part-time jobs based upon financial need as assessed by the Parent Confidential Statement or Student Financial Statement in the college or in an approved off-campus agency by the Financial Aid Office.

SUPPLEMENTAL EDUCATIONAL OPPORTUNITY GRANT: Undergraduate students, who could not attend college otherwise, may apply for this grant provided they are enrolled in at least half the normal academic course load (6 semester hours). This is a matching funds grant. It must be matched by and can be no more than the assistance received from one of the following sources: National Direct Student Loan, Basic Grant, College Work-Study, Mass. State Scholarship, or an approved private scholarship.

2. State Aid

MASS. BOARD OF HIGHER EDUCATION SCHOLARSHIP: To apply for this program students must file a Parents' or Student's Financial Statement and a Board of Higher Education Scholarship application. The deadlines for filing are: Freshman applications — November 15; Upperclassman applications — February 15. Applicants must be residents of Massachusetts and full time undergraduate students. Specific inquiries regarding this program should be addressed to:

Board of Higher Education, Scholarship Office

31 St. James Street

Boston, Mass. 02116

Telephone: 727-5367

GUARANTEED LOAN PROGRAM: Students may apply for this loan directly to a bank, credit union, or loan association if they are enrolled in a graduate or undergraduate program at least half time. For more information contact local banks.

3. Veterans

Several forms of financial and academic assistance are available to veterans through the College Office of Veterans Affairs.

TUITION EXEMPTION: For Veterans whose service was credited to the Commonwealth of Massachusetts and who served at least 180 days of active duty after February 1955.

Procedure: Obtain Form 10 (Proof of Residency in Massachusetts) from the State Adjutant General's Office, Room 1000, State House, 100 Cambridge Street, Boston, by submitting your discharge papers to that office. Bring Form 10 to the College Office of Veterans Affairs to complete your application.

G.I. BILL: provides for monthly stipends from the federal government (up to 36 payments).

Procedure: Bring Form DD-214 (Discharge Papers), marriage certificate and children's birth certificates (when applicable) to the College Office of Veterans Affairs.

TUTORIAL ASSISTANCE: for those Veterans who encounter academic difficulty, reimbursement for tutorial services is available, \$60 per month to a maximum of \$720.

VETERANS ATTENDANCE: In accordance with VA Section 1784(a), title 38, U.S.C., and V.A.R. 14203 special attention will be given to the record of attendance of all Veterans, their satisfactory

progress in their courses of study, and continued good standing in all courses.

PLEASE BE ADVISED THAT SPECIAL REPORTS WILL HAVE TO BE MADE TO THE VETERANS ADMINISTRATION ON THOSE VETERANS WHO DO NOT COMPLY WITH THE ABOVE REGULATIONS.

ALL WITHDRAWALS AND CHANGES IN STUDENT STATUS MUST BE REPORTED TO THE VETERANS OFFICE IMMEDIATELY BY THE VETERAN.

4. Scholarships

Information about scholarships is posted in the Office of the Dean of Students. The following scholarships are awarded annually:

Bookstore Trust Fund Scholarships

Junior Award: A cash award is made to those Juniors judged by the Scholarship Committee who have demonstrated academic excellence at the college.

Senior Award: Scholarships for graduate education are awarded to those Seniors who have demonstrated academic excellence at the college.

John J. Kelly Jr. Scholarship:

Scholarships are offered by the Student Government Association for Seniors planning to go or have been accepted into graduate school.

Alumni Scholarship:

Scholarships are offered for the relatives of Boston State College alumni who are planning to go or have been accepted into graduate school. The Alumni Association also sponsors a scholarship for undergraduate students.

Public Law 550 (Police and Fire Department Members)

Under the provisions of Public Law 550 (1972), any person who is a regular member of a police department or fire department of a city or town of the Commonwealth within commuting distance of a state college may be admitted as a candidate for a four-year degree,* and, while enrolled as a student in good standing, have his tuition paid by the Commonwealth. This program requires a recommendation by the candidate's superior officer, and the demonstration of sufficient academic ability as determined by a competitive examination. For further information on this program contact the advisors in the Law Enforcement or Fire Science programs.

**Provided that they meet the admissions requirement of the college.*

LEEP (Law Enforcement Education Program)

This federally funded program, sponsored by the U.S. Department of Justice, provides full-time in-service policemen with awards covering tuition and fees. The availability of LEEP funds is dependent on an annual award to the college. Information on this program is available in the Public Service Program office.

ACADEMIC ADVISEMENT

Until students declare a major, they will work out their course selections with an advisor in the Academic Advisement and Information Center in the Office of the Dean of Students. Upon selection of a major, students apply to their major department for assignment of an academic advisor. The Academic Advisement and Information Center will be available to students as a supplementary resource to meet their advisement needs.

COUNSELING/TESTING

The college provides a staff of well-qualified personal counselors to assist students in making personal decisions, in coping with day-to-day problems, and in adjusting to the pressures associated with attendance in college. Contact Dean of Students.

PLACEMENT OFFICE

The Placement Office offers workshops on resume writing and job interviewing, listings of available positions in public and private industry, and opportunities to meet recruiters from various firms and institutions. Seniors are encouraged to file placement papers.

INSURANCE

Health and Accident: The College provides an optional health and accident insurance each year. Contact the Office of the Dean of Students for information.

ATHLETICS

Boston State College sponsors varsity teams in baseball, basketball, cross country, gymnastics, ice hockey, indoor track, lacrosse, outdoor track, pistol, rifle, soccer, softball, tennis, volleyball and wrestling.

The intramural program includes touch football, basketball, volleyball, floor hockey, ping pong, chess, tennis, sailing, Karate, weight lifting and jogging.

The college is a member of the National Collegiate Athletic Association, the Eastern Collegiate Athletic Conference, the Eastern Association of Intercollegiate Athletics for Women, the Massachusetts State College Athletic Conference, the New England Football Conference, and the New England College Athletic Conference.

CAMPUS MINISTRY

Boston State College has an active ecumenical campus ministry at both the Huntington Campus and Fenway Campus. The ministry programs include seminars, a coffee house, counseling, forums, special classroom resources, weekends of reflection and a special program on Women returning to school.

STUDENT GOVERNMENT ASSOCIATION

The Student Government Association is the official student organization, recognized by the President of the College, whose primary function is that of representing the needs of the students.

The Student Government Association is funded by the student activity fee which all students are required to pay each semester. Representatives and officers of the S.G.A. are elected by the undergraduate student body. The Student Government Association provides for the social, cultural, and educational needs of the students.

The following clubs and societies have been established to achieve these goals:

African Student Association	Law Enforcement
Alpha Psi Omega	Mathematics
Armenian	Music
Art	Newman
Biology	Night Watchers
Chemistry	Nursing
Chess	Phi Alpha Theta
Collegium Musicum	Philosophy
Commonwealth Club	Physical Education
Debate	Physics
Drama	Political Science
Earth Science	Psychology
Economics	Publications
English	Scuba Diving
Fire Science	Shakespeare
French	Ski
Geography	Sociology
German	Spanish
Hispanic-American	Women's Center
History	
Italian	

BOOKSTORE

By contract with the Board of Trustees, the College Bookstore has the exclusive right to sell books and supplies on campus. All monies realized by the college from the bookstore are used for scholarships.

THE COLLEGE LIBRARY

The Boston State College Library is located in the Tower Building on Huntington Avenue. The library houses approximately 150,000 volumes. The periodical collection consists of over 1200 current subscriptions. Many bound back issues, as well as back issues of periodicals on microfilm, are available. The library also has several special collections on microfilm and microfiche including ERIC (Educational Research Information Center), The New York Times (1851-present); The Boston Globe and The Boston Herald American (1960-present) and a 20,000-volume Library of American Civilization and the Library of English Literature published by Encyclopedia Britannica, and the Schomberg Collection of Black History from the New York Public Library.

Of particular interest is the Miriam Kallen Children's Archive. This collection of children's books and learning materials was donated by one of the college's most notable emeritus professors.

In addition to the resources available in our library, students and faculty at Boston State College may borrow the materials of nine other institutions in the neighborhood and at the state supported colleges, community colleges and universities. By presenting a valid BSC ID, a student may use the libraries of Emmanuel College, Hebrew College, Mass. College of Art, Mass. College of Pharmacy, Simmons College, Suffolk University, Wentworth Institute, Wheelock College and the Museum of Fine Arts, subject to the policies of the particular library.

You must present a valid BSC ID to borrow from our library. This policy applies equally to students, faculty and staff.

Academic Policies

ATTENDANCE

Students are expected to attend regularly scheduled classes. The responsibility for such attendance rests with the individual student.

Students are recognized as sufficiently mature to accept this personal responsibility and to consider and accept the consequences of failure to attend classes.

In cases of prolonged absence, students are to contact their instructors.

I.D. CARD

Each student is required to carry a current I.D. card on the campus at all times. The I.D. card is provided by the Security Office for a fee of \$1.50.

REGISTRATION

Students must register for each succeeding semester including student teaching. Failure to register is recorded as a withdrawal from the college and students must go through the Readmittance Procedure if they wish to return to the college.

ADMITTANCE TO CLASS

NO STUDENTS ARE CONSIDERED OFFICIALLY REGISTERED IN THEIR CLASSES UNLESS THEY REPORT TO THE APPROPRIATE INSTRUCTOR BY THE THIRD CLASS MEETING OF THE SEMESTER. FAILURE TO DO SO WILL RESULT IN AUTOMATIC WITHDRAWAL FROM THE COURSE.

COURSE LOAD

The normal course load is approximately 15 semester hours. A full-time student may register for no less than 12 nor more than 18 semester hours. Individual variation from this load may be allowed only with the written permission of the Dean of Students.

AT THE END OF THE SECOND WEEK OF EACH SEMESTER STUDENTS CARRYING OVER 18 SEMESTER HOURS WITHOUT WRITTEN APPROVAL WILL BE WITHDRAWN FROM THOSE COURSES CONSTITUTING THE OVERLOAD.

TRANSFER CREDIT

Boston State College students who wish to secure credit for courses taken in other institutions must secure written permission from the appropriate department chairperson *prior* to enrolling for these courses.

A form must be completed and submitted to the Dean of Students. Forms are available in the Office of the Dean of Students.

COURSE CHANGES

A student may ADD courses only during the first two weeks of the semester. A student may WITHDRAW from a course up to two weeks before the final day of classes by returning the Class Admit Card to the Office of the Registrar. **STUDENTS ARE AUTOMATICALLY WITHDRAWN FROM A COURSE IF THEY FAIL TO REPORT TO THE ASSIGNED INSTRUCTOR BY THE THIRD CLASS MEETING OF THE SEMESTER.**

Students are not considered to be full-time if they carry fewer than 12 semester hours.

GRADING SYSTEM

1. Designations

The official undergraduate grades at Boston State College are reported according to the following system:

4.0, 3.5, 3.0, 2.5, 2.0, 1.5, 1.0, 0.0

4.0 is the highest grade

0.0 is a failing grade

1.0 is the lowest passing grade

P is Passing

W (withdraw) is recorded for students who drop a course and return their Class Admit Card to the Registrar's Office after the tenth academic day to two weeks before the final day of classes.

INC (incomplete) may be given when all the requirements of the course have not been completed; however, the student must, in the judgement of the instructor, have already successfully completed a substantial part of the requirements. In order to receive a grade in a course with an INC (incomplete), the student shall make arrangements directly with the instructor. It is the student's responsibility to contact the instructor. **ALL INCOMPLETES MUST BE MADE UP BY THE EIGHTH WEEK OF THE SEMESTER IMMEDIATELY FOLLOWING THE SEMESTER IN WHICH THE INCOMPLETE WAS RECEIVED.** If this requirement is not fulfilled, the designation of incomplete becomes a final grade of 0.0. A grade can never be removed from the transcript.

2. Required Grade Averages

Semester Hours*	For Good Standing	For Retention
0-18	1.50	1.00
19-35	1.50	1.30
36-50	1.65	1.50
51-64	1.75	1.60
65-78	1.85	1.70
79-93	2.00	1.85
94- —	2.00	2.00

*The higher number printed under the cumulative heading "Hours Earned" or "Hours Taken" on your grade report is used to find your academic status in the table above.

A student whose cumulative average falls below that required for retention will be dismissed because of academic deficiency.

A 2.00 cumulative average is required for graduation.

3. Probation/Failure

Students who fall below retention level are subject to dismissal from the College. Upon notification of dismissal, the student shall have ten days to appeal in writing to the Dean of Students.

Students who fall below good-standing will be placed on probation.

4. Grade Changes

No grade may be changed later than one calendar year after the original grade was submitted. Change of grades are made only with the written approval of the instructor and the department chairperson.

WITHDRAWAL FROM COLLEGE

Students are considered officially withdrawn from the college under *any* of the following conditions:

1. Formal notification in writing or in person submitted to the Office of the Dean of Students before final examinations begin.
2. The receipt of a grade of INCcomplete or Withdrew in every course for one semester.
3. Grade point average below retention level.
4. Failure to complete the registration process and pay tuition.

Students who cease attending classes without officially withdrawing will receive grades of 0.0.

READMISSION AFTER WITHDRAWAL

All applications for readmission to the college must be filed in the Admissions Office by October 30 for spring readmission and by March 31 for fall readmission.

The Committee on Readmission shall make the final decision on those candidates requesting readmission.

For further information contact Director of Admissions.

ACADEMIC HONORS

A student has attained the Dean's List when his semester average is between 3.00 and 3.49, provided he has earned at least 12 semester hours and has no grade below 2.0.

A student has attained the President's List when his semester average is between 3.50 and 4.0 and has earned at least 12 semester hours.

GRADUATION WITH HONORS

A minimum of 45 semester hours taken at Boston State College is required for graduation with honors:

Summa Cum Laude	— 98-99th percentile
Magna Cum Laude	— 96-97th percentile
Cum Laude	— 93-95th percentile

DEPARTMENTAL HONORS PROGRAM

The Honors Program is a special, optional, scholarly opportunity open to any junior or senior who has maintained a cumulative average of at least 3.00. The program requires independent research and a thesis in the student's major discipline.

One course of three semester hours (490) in the respective department or program is available during the student's final semester of on-campus work. This course is considered complete only when the research document is actually completed and has been accepted by the Honors faculty advisor. For further information contact the appropriate departmental chairperson.

HONOR SOCIETIES

Chapters of six national honor societies are presently operating on the campus: the Mu Iota Chapter of Phi Alpha Theta, the international honor society in History; Iota Rho Chapter of Gamma Theta Upsilon, the professional Geography fraternity; a chapter of Psi Chi, the national honor society in Psychology; Sigma Pi Sigma, the international honor society in Physics; the Beta Sigma Chi chapter of Lambda Alpha Epsilon, the Law Enforcement honor society; and Kappa Delta Pi, the national honorary society in Education.

Bachelor Degree Requirements

BACHELOR OF SCIENCE AND BACHELOR OF ARTS DEGREE:

Major and Minor Concentrations: The requirements for the B.S. or B.A. major concentration consists of 30 to 36 semester hours as specified by the department. The minor consists of 18 to 21 semester hours as specified by the department. Degree candidates must have either a major and a minor *or* two majors. Departments may specify a core of courses required for a major or minor. A *minimum* of 120 semester hours is required for graduation.

Bachelor of Arts: Boston State College awards the Bachelor of Arts degree to those students who declare one of the following as their first major: Afro-American Studies, Economics, English, Foreign Languages, History, Philosophy, Political Science, Psychology, Regional Cultural Studies, Regional and Urban Planning Studies, and Sociology.

Bachelor of Science: Boston State College awards the Bachelor of Science degree to those students who declare one of the following as their first major: Biology, Chemistry, Fire Science, Law Enforcement, Management, Mathematics, Medical Technology, Natural Science, Physical Education, Physics, Public Administration, and Regional Physical Studies.

BACHELOR OF SCIENCE IN EDUCATION

Candidates for the degree of Bachelor of Science in Education shall develop a major of 36 semester hours in Elementary Education, Early Childhood Education, or Elementary Education-Urban Specialization as specified by the department. Students must develop a minor or contract minor. In addition to the major, candidates shall teach for one semester for which they will receive 15 semester hours. A minimum of 126 earned semester hours including student teaching is required for this degree.

BACHELOR OF SCIENCE IN NURSING

The Nursing Program is an upper division program consisting of 60 semester hours of nursing courses, as specified by the department.

Freshmen are not admitted directly into this program. Students who have attained a minimum cumulative average of 2.0 and who have a minimum grade of 2.5 in each prerequisite science course will be considered by the Nursing Selection Committee for admission to this program. Satisfactory completion of prerequisite courses *does not* guarantee admission to the Nursing Program. A total of 128 earned semester hours is required for this degree.

See Director of Nursing for further information.

MAJOR AND MINOR FIELDS

All students must successfully complete either a major and a minor or two majors in two different fields. No course may be used to satisfy both a major and a minor (or second major/minor) requirement. Students may elect a major(s) from the following fields:

Afro-American Studies	English
Biology	Foreign Languages
Chemistry	French
Economics	German
*Early Childhood Education	Spanish
*Elementary Education	History
*Elementary Education- Urban Specialization	Management
	Mathematics

*Medical Technology
Natural Science
*Nursing
Philosophy
Physical Education
Physics
Political Science
Psychology
Public Service

Fire Science
Law Enforcement
Public Administration
Regional Studies
Regional Cultural Studies
Regional Physical Studies
Regional and Urban
Planning Studies
Sociology

**A minor(s) may be developed in any of the major fields except those which are asterisked (*). Minors may also be chosen from the following:*

Anthropology
Art
Bilingual Education
Business Economics
Coaching
Computer Science
Dance
Foreign Languages
Health
Library Specialization

Music
Physical Education and Recreation for the Handicapped
Physical Education in the Elementary School
Physical Education in the Secondary School
Recreation
Secondary Education
Teaching of Reading

CONTRACT MINOR

In cases where existing departmental minors do not support the occupational or graduate study goals of a student, a contract minor may be developed. The following conditions are to be observed:

- 1) a Contract Minor must contain a minimum of 18 semester hours.
- 2) no more than two (2) courses from the student's major department may be used.
- 3) the courses must be selected from at least three (3) different departments or disciplines.
- 4) courses used to fulfill other major or minor requirements cannot be used for the Contract Minor.
- 5) a rationale for the Contract Minor with a list of the courses to be taken are to be submitted to the contract advisor in the student's major department.
- 6) the proposal, if approved by the department chairperson, is to be forwarded to the Academic Dean before October 15 or March 15.
- 7) Contract Minor proposals must be submitted before the completion of the Junior year or before 90 semester hours of undergraduate credit have been earned.
- 8) the Academic Review Committee makes final decisions on all proposals.

GRADUATION REQUIREMENTS

Boston State College has one official graduation each year in June. Seniors who plan to graduate in June must fill out a Commencement

Application Card in the Office of the Dean of Students by September 30.

Seniors who complete all degree requirements in August or January will receive a letter of certification, but the official diploma is granted only in June.

Students are considered as graduated if they have fulfilled *ALL* of the following requirements:

- 1) A completed Commencement Application Card
- 2) Earned a minimum of 30 semester hours at Boston State College
- 3) Completion of a minimum of 120 earned semester hours with the following exceptions:
 - a) Nursing degree candidates must earn a minimum of 128 semester hours
 - b) Education major(s)/minor(s) must earn a minimum of 126 semester hours
- 4) Completion of the General Education Requirements as certified by the Office of the Dean of Students
- 5) Completion of their major(s) and minor(s) as certified by the appropriate department chairpersons
- 6) A minimum of 2.0 cumulative grade point average

STUDENT TEACHING

Student teaching assignments are made by the respective education department. Students must register with the appropriate education chairperson during their sixth semester. While teaching, a student may not take other courses without the written permission of the respective education department chairperson.

STUDENT TEACHING ABROAD

Boston State College is affiliated with the Center for International Education, a division of the Massachusetts State College System. The center provides information and placement of student teachers both in the elementary and secondary schools abroad. The center also acts as a clearinghouse for overseas teaching opportunities, special European courses and foreign internships. For further information regarding overseas opportunities contact the appropriate Education Department Chairperson.

TRANSCRIPTS

Transcripts may be requested in person in the Office of the Registrar or through the mail and must be prepaid. No telephone requests will be honored. Please supply date of birth, dates of attendance, and maiden name to facilitate transcript orders. No transcript will be sent unless all outstanding debts to the college have been satisfied.

Transcripts may be obtained upon request at the rate of \$1 each. Upon graduation one copy will be sent to each student without charge.

GENERAL EDUCATION REQUIREMENTS

REQUIRED OF ALL STUDENTS

Boston State College offers undergraduate programs leading to the Bachelor of Arts, Bachelor of Science, Bachelor of Science in Education, and Bachelor of Science in Nursing degrees. Candidates for these degrees must satisfy the General Education Requirements.

For graduation, all students must demonstrate competence in the fol-

lowing: English Composition, Speech, Humanities, Social Sciences, Natural Sciences and Mathematics.

General Education courses may also be used to fulfill major/minor requirements with permission of the department chairperson.

GENERAL REQUIREMENTS — 3-9 Semester Hours Total

English Composition — One Year. If a grade of 4.0 is achieved in E101, then E102 is not required.

Speech — Non-credit exam or credit course.

E101

English Composition I & II
Effective Speech

E102

E101-102
E103 (course)
or (exam)

E103

6 s.h.
3 s.h.
0 s.h.

HUMANITIES REQUIREMENTS — 15 Semester Hours

Group I — One two course sequence

Group II — One course

Group III — Two courses from two different disciplines

Group I

Group II

Group III

Group I	Major British Writers I and II	E201-202	6 s.h.
	American Writers I and II	E205-206	6 s.h.
	Masterpieces of Western Literature I and II	E203-204	6 s.h.
Group II	Shakespeare I: Tragedies	E301	3 s.h.
	Shakespeare II: Com/Hist.	E302	3 s.h.
	Modern Novel	E406	3 s.h.
	Modern Short Story	E407	3 s.h.
	Modern Poetry	E427	3 s.h.
	Black American Literature I	E416	3 s.h.
	Black American Literature II	E417	3 s.h.
	Masterpieces of French Lit/Trans I	LF201	3 s.h.
	Masterpieces of French Lit/Trans II	LF202	3 s.h.
	Masterpieces of German Lit/Trans I	LG201	3 s.h.
	Masterpieces of German Lit/Trans II	LG202	3 s.h.
	Masterpieces of Spanish Lit/Trans I	LS201	3 s.h.
	Masterpieces of Spanish Lit/Trans II	LS202	3 s.h.
	Foreign Language Instruction		3 s.h.
Group III	Art Appreciation	A201	3 s.h.
	Structure in the Visual Arts	A202	3 s.h.
	Art in the United States	A303	3 s.h.
	Introduction to the Art of the Film	AF201	3 s.h.
	Introduction to Oriental Art	A305	3 s.h.
AFRICAN STUDIES	African Literature	AA214	3 s.h.
	Black Theatre and Drama	AA420	3 s.h.
	African and Afro-American Music	AA204	3 s.h.
	Philosophy of the Foundations of Afro-American Social and Political Thought	AA202	3 s.h.
	African Religions	AA415	3 s.h.
MUSIC	Appreciation of Music	MS201	3 s.h.
	Basic Studies in Music	MS205	3 s.h.
PHILOSOPHY	Problems of Philosophy	PH101	3 s.h.
	Greek Philosophy	PH105	3 s.h.
	Existentialism	PH106	3 s.h.
	Ethics	PH103	3 s.h.

SOCIAL SCIENCE REQUIREMENTS — 15 Semester Hours

Group I — One two course sequence AND

One course to satisfy Massachusetts State Law*

Group II — Two courses from two disciplines.

		H201 or GV101		
	Group I	Group I*	Group II	Group II
Group I	Western Civilization I and II		H101-102	6 s.h.
	World History I and II		H105-106	6 s.h.
	History of Ideas I and II		H103-104	6 s.h.
	History of Western Culture I and II		H107-108	6 s.h.
	Great Personalities of Western Civilization I and II		H109-110	6 s.h.
	Great Cities of Western Civilization I and II		H111-112	6 s.h.
	*American History to 1865		H201	3 s.h.
	*American Government		GV101	3 s.h.
Group II	Introduction to Black Studies		AA101	3 s.h.
	Cultural Anthropology		AN201	3 s.h.
	Principles of Economics		EC101	3 s.h.
	American History Since 1865		H202	3 s.h.
	Introduction to Psychology		PY101	3 s.h.
	Culture Systems		RS151	3 s.h.
	Urban Geography		RS175	3 s.h.
	Introduction to Sociology		SO210	3 s.h.
	Critical Issues in American Education		ED201	3 s.h.
	Intro. to Political Science		GV103	3 s.h.

NATURAL SCIENCES AND MATHEMATICS — 15/17 Semester Hours

Group I — One two course sequence in a laboratory science

Group II — One Course

Groups I, II or III — Any two courses

	Group I	Group II	Grp. I, II or III	Grp. I, II or III
Group I	Introduction to Biology I and II		BI101-102	6 s.h.
	Geology I and II		RS101-102	6 s.h.
	Physical Science I and II		PS101-102	6 s.h.
	Principles of Chemistry I and II		CH101-102	8 s.h.
	Introduction to Chemistry I and II		CH107-108	8 s.h.
	College Physics I and II		P101-102	8 s.h.
	General Physics I and II		P103-104	8 s.h.
Group II	Fundamental Principles of Math I		M101	3 s.h.
	Algebra and Trigonometry		M103	3 s.h.
	Pre-Calculus		M104	3 s.h.
	Mathematical Analysis I		M109	3 s.h.
Group III	Environmental Biology		BI209	3 s.h.
	Social Biology		BI210	3 s.h.
	Environmental Chemistry		CH105	3 s.h.
	Basic Modern Mathematics*		M220	3 s.h.
	Structure of Number Systems I		M224	3 s.h.
	Structure of Number Systems II		M225	3 s.h.
	Environmental Systems		RS125	3 s.h.
	Weather and Climate		RS225	3 s.h.
	Oceanography I		RS226	3 s.h.
	Oceanography II		RS227	3 s.h.
	Astronomy		P251	3 s.h.
	Current Issues in Physical Science		PS111	3 s.h.
	Health Science		HL102	3 s.h.

*A student may not take both M220 and M224 for credit. Elementary Education Majors must take either M220 or M225.

Departments and Courses

The following programs and course descriptions are those of the Undergraduate College.

Prerequisites are listed as a guide for the student. Students with a proficiency in a prerequisite area should consult the department chairman prior to registration.

Every course carries three credits unless otherwise indicated; "L" indicates the number of laboratory hours and "SH" is the number of credits other than three.

AFRO-AMERICAN

Christopher Nteta, Chairman

Associate Professor Moore. Assistant Professors Hafkin, Longus, Nteta.

The Afro-American Studies Department is an interdisciplinary department. Its scope includes all aspects of past and present experiences of black people in Africa, America, and elsewhere.

The concentration leading to the B.A. or A.B. degree requires 30 semester hours for a major and 18 for a minor.

AA101 (Introduction to Black Studies) is required of all majors and minors. It is strongly recommended that majors and minors take AA101 in their first semester enrollment in Afro-American Studies. Majors must also include two courses from each of the following groups:

- A. American Black Experience
 - AA210 (Slavery in the Americas)
 - AA301 (Black Institutions)
 - AA302 (Black Family)
 - AA305 (Black Folklore)
 - AA407 (Social Psychology of Afro-Americans)
- B. African Black Experience
 - AA214 (African Literature)
 - AA410 (Modern Southern Africa)
 - AA412 (Pan Africanism)
 - AA415 (African Religions)
- C. Modern Black Experience
 - AA304 (Black Urban Experience)
 - AA401 (Black Nationalism)
 - AA340 (Black Politics)
 - AA490 (Special Topics in Afro-American Studies)

AA490 and AA491 are open only to majors in Afro-American Studies.

All courses meet every semester unless otherwise indicated.

AA101 INTRODUCTION TO BLACK STUDIES

To introduce potential majors and minors to the field, the black experience in literature, history, education, music, art, and political structures will be surveyed.

AA102 BLACK STUDIES: CONCEPT AND CONTROVERSY

Examines the history of the Black Studies Movement in terms of definition of the discipline, resistance to the inception and continuance of the discipline both historically and contemporarily.

AA111-112 ELEMENTARY SWAHILI (AA111—Fall, AA112—Spring)

Introduction to the language with emphasis on developing conversational ability and reading knowledge through selections from Swahili literature.

AA121-122 INTERMEDIATE SWAHILI (AA121—Fall, AA122—Spring)

Prerequisite: AA111-112. A continuation of first year Swahili to develop facility in conversation and reading plus a basic knowledge of Swahili literature. *Language laboratory.*

AA201 BLACK BIOGRAPHY (Fall)

A study of black life, personality, and achievement in the white-dominated environment of the United States as shown in several autobiographies.

AA202 PHILOSOPHICAL FOUNDATIONS OF AFRO-AMERICAN SOCIAL AND POLITICAL THOUGHT (Fall)

A study of some of the major ideological currents conducted through an approach based on philosophical analysis and intellectual history. Major figures, topics, and movements will be covered in a partially comparative way. Among the theorists studied will be such figures as Washington, Garvey, Dubois, Nkrumah, Senghor, and Fanon.

AA203 BLACK RELIGION (Fall)

The nature and history of religious experience and ethics among black peoples in the United States, including black churches and their relations with white churches.

AA204 AFRICAN AND AFRO-AMERICAN MUSIC I (Fall)

Examination of black music from African origins to American expression, with emphasis on development of various forms of blues and jazz.

AA205 AFRICAN AND AFRO-AMERICAN MUSIC II

A continuation of AA204. Studying in greater detail Black Musical performance including recording.

AA210 SLAVERY IN THE AMERICAS (Fall)

A comparative study of the origins, nature, and history of slavery as an economic and social system in the United States, West Indies, and Brazil, its impact on the slaves and their reactions to it.

AA214 AFRICAN LITERATURE (Fall)

Introduction to plays, poetry, short stories, and novels of modern Africa with critical reading for literary merit as well as statements about African society.

AA216 AFRICAN AND AFRO-AMERICAN ART (Spring)

A survey of black art from its religious and symbolic significance in Africa to the position of Afro-American art today. Boston area field trips.

AA301 BLACK INSTITUTIONS (Fall)

The history and nature of community organizations in the United States such as churches, social and self-help societies, businesses, and protest movements, including the modern concept of community control of institutions closely affecting the lives of black people.

AA302 THE BLACK FAMILY (Spring)

A historical and sociological study of the black family in the United States, with comparative materials from the West Indies and Africa, examining how slavery and urbanization have affected black family life.

AA304 THE BLACK URBAN EXPERIENCE (Fall)

The sociology, economics, and politics of the modern ghetto, and the ideologies, strategies, and goals of current movements toward change, with field work in the Roxbury community.

AA305 BLACK FOLKLORE (Spring)

A study of the major forms of black folklore from the myths of origin and oral traditions of Africa to the folksongs, folktales and slave narratives of the United States.

AA310 THE BLACK EXPERIENCE IN THE WEST INDIES (Spring)

History and culture of black people in the Caribbean area; influences of West Indies on American black experience.

AA312 BLACK CAREERS (Fall)

This course will be offered as a *practicum* course designed to help students explore career opportunities. While a formal block will be assigned to the course, it is understood that the content of the course consists of the student taking a three-hour work assignment, probably in the afternoons, as an internship in black careers. The student will choose his work assignment from a list of internships.

AA340 BLACK POLITICS (Spring)

A study of the history of black participation in electoral politics and Revolutionary Movements and the modern situation of black political power at the local, national and international levels.

AA401 BLACK NATIONALISM (Spring)

History and theory of nationalist movements in the United States, Africa, and Latin America, based on the common experience of discrimination and colonialism.

AA407 SOCIAL PSYCHOLOGY OF AFRO-AMERICANS (Spring)

A social psychological analysis of the psychological and behavior patterns of Afro-Americans. Focus will center on the identity, attitude, intelligence and personality of black Americans, utilizing the historical and socio-cultural approach. The course will examine the American social system, black institutions, and racism, with a discussion of the defensive and offensive mechanisms used by Afro-Americans.

AA408 BLACK PERSONALITY TRAITS AND GROUP DYNAMICS

Study of yourself, how you act in groups, how groups are formed, organized, developed and your role in the process. This course allows you open verbal expression in a group setting so you can study individual personality, group norms, process, organization and structure. Permission to enroll must be given by the instructor prior to registering.

AA410 MODERN SOUTHERN AFRICA

The sociology, politics, and economics of some African societies in white-dominated states, stressing the history of their resistance movements.

AA412 PAN-AFRICANISM

The history and impact of this ideology on the struggles of blacks in Africa, the Caribbean and North America against colonialism and neo-colonialism.

AA415 AFRICAN RELIGIONS (Fall)

Primary emphasis will be on traditional African religion in peripherally on Islam and missionary Christianity and their impact on African culture.

AA420 BLACK THEATER AND DRAMA (Fall)

A survey of the contribution of the black man to theater in the United States; history of black theater; reading of plays by black authors.

AA425 THE BLACK WOMAN (Spring)

An historical and social science perspective on the role of black women in America within the black family and the black community, as well as the larger society.

AA426 PROBLEMS IN BLACK HISTORY (Spring)

Designed for the advanced student with some previous knowledge of Afro-American and African history, this course will deal with major issues in the historical interpretation of African and Afro-American history.

AA490 SPECIAL TOPICS IN AFRO-AMERICAN STUDIES (Spring)

Required of honors candidates in the second semester of the junior year, this course will deal in research methods in the preparation of an honors project.

AA491 INDEPENDENT RESEARCH (Fall)

Advanced reading and research in Afro-American studies. Open to Afro-American studies majors with permission of the department chairman. The main purpose is to give students research experience where they can learn at least two different sets of research skills. Students must be mature and able to work independently.

ART

Vincent J. Tringale, Chairman

Professors Bertolli, Tringale. Associate Professors Arvanites, Cody, DiGiovanni, Egleston, Fiorello, Polito, Assistant Professors Fox Tree, Lipchitz, Nelson, St. Pierre, Wrigley.

The courses offered by the Department of Art are designed to develop perception, imagination, intelligence, and creativity. In order to foster these abilities and to promote a general understanding of man's aesthetic nature, a program in both the theoretical and the practical aspects of art has been provided.

The film, photography, and screen media courses offered by the department are seen as a series of introductory courses to visual media. As the need warrants, other aspects in visual and aural media will be included.

A minor in art may be acquired by students who will take courses totaling a minimum of 18 semester hours of art elective courses as designated by the Department of Art.

Attendance requirements: Because of the nature of studio work, attendance in class is part of the requirement of studio courses. Credit for all class projects will be granted only if these are developed in class under the supervision of the instructor.

All courses meet every semester unless otherwise indicated.

A101 DESIGN

Problems in space, line, form, color, and texture are considered and developed in various techniques.

A102 INTRODUCTION TO DRAWING AND PAINTING

A studio experience in which a series of basic problems dealing with the student's immediate environment is utilized. The development of fundamental skills in painting techniques is fostered.

A103 WATERCOLOR PAINTING

A studio workshop in the exploration of the media of watercolor. Varied tools and materials, brush techniques and principles of composition will be used and studied.

A201 ART APPRECIATION

This course introduces the student to an approach to the works of the artist and to important writings in aesthetics. Analysis of the visual language is developed through slide lectures, museum visits, and assigned reading. Emphasis is placed on the aesthetic appreciation of the various areas within the socio-historic context.

A202 STRUCTURE OF THE VISUAL ARTS

A lecture-laboratory approach to an appreciation of art through cognitive reasoning and visual discrimination. Through analysis of works of art by masters of the past and present and by students' own individual efforts, students are expected to experience a greater sensitivity to the creative process.

A203 INTERMEDIATE DRAWING AND PAINTING (A)

An objective approach to the recording of nature. Still life, portrait and landscape paintings are executed in opaque and transparent paints to develop the student's powers of observation.

A204 INTERMEDIATE DRAWING AND PAINTING (B)

A course in painting experimentation and free interpretation of the object, stressing an individual search for form and color. An individual style and personal direction are expected to be developed by the student.

A205 LIFE DRAWING I

This course is concerned with the artistic study of the human figure; its articulated form and balanced relationships, its movements, related proportions and anatomical construction. The human figure is an inexhaustible source of study and provides the best focus for all previous exercises and experiences in drawing and interpretation.

A206 LIFE DRAWING II

Prerequisite: A205. Advanced work in drawing the human form. The course will offer intensive study of the human figure as well as how it plays a central part in its environment and in the creation of artistic compositions.

A208 METALSMITHING

Prerequisite: A101. This course is designed to introduce the student to the basic techniques involved in the fabrication of jewelry and hollow ware. Shaping, raising, forging, rivetting and soldering as well as stone setting will be covered.

A301 PAINTING WORKSHOP A

A course in which the student is encouraged to achieve a greater visual individuality. Traditional and modern painting media will be explored and self-expression will be encouraged.

A302 PAINTING WORKSHOP B

This course stresses the personal style of the student and individual interpretation of subject matter. Painting will be discussed through critique methods.

A303 THE ARTS OF THE UNITED STATES

This course will cover painting, sculpture and architecture in America from the time of the colonies to the present. "Revival Periods" and contemporary styles will be discussed and analyzed.

A304 MODERN AND CONTEMPORARY ART

Prerequisite: A201. This course will involve student research with slide presentation. The subjects will deal with philosophical and aesthetic areas of visual communication in the 20th century.

A305 INTRODUCTION TO ORIENTAL ART

The study of classic periods of Indian, Chinese and Japanese art utilizing the Oriental Art Collection of the Museum of Fine Arts, Boston.

A306 SCULPTURE I

Introduction to basic techniques of additive and subtractive sculpture. Relief as well as sculpture in the round projects will be executed. Plastic, clay, wood, wire and styrofoam are the materials to be explored. Casting in plaster will be emphasized. *Open only to juniors and seniors.*

A307 HISTORY OF RENAISSANCE ART (Fall 1977)

Prerequisite: A201. The arts of the fourteenth, fifteenth and sixteenth centuries as a record of the intellectual, humanistic, and aesthetic embodiment of the spirit which is the basis of modern thought, are studied.

A309 HISTORY OF BAROQUE ART (Spring 1978)

Prerequisite: A201. This course will explore the major art works of the seventeenth and eighteenth centuries with special emphasis on the Baroque style.

A310 HISTORY OF ANCIENT ART (Fall)

An illustrated survey of the fine arts in Western Europe and the Near East, with special discussions of the major works of Prehistoric, Mesopotamian, Ancient Near East, Egyptian, Aegean, Etruscan, and Roman art.

A311 HISTORY OF MEDIEVAL ART (Spring)

An illustrated survey of the fine arts of Europe from the fall of the Roman Empire to the Early Renaissance, emphasizing many of the major works of art during the brilliant flowering of Coptic, Early Christian, Byzantine, Carolingian, Romanesque, and Gothic eras.

A312 BOOK DESIGN AND ILLUSTRATION (Fall 1977)

A practical course in the mechanics of producing children's books and other illustrated books for publication.

A313 COMMERCIAL DESIGN

An introduction to the field of commercial art, including newspaper, magazine, direct mail, and point-of-sale advertising. Approaches to the marketing of the product will be covered.

A315 ART FOR THE KINDERGARTEN-PRIMARY LEVEL

Required of kindergarten-primary majors. A study of the foundations and current objectives of art educators and their application to the grade levels concerned with this course.

A316 ARTS AND CRAFTS:

KINDERGARTEN-PRIMARY LEVEL

1 L., 1 S.H.

Prerequisite: A315. Required of kindergarten-primary majors. A studio course designed to give a working knowledge of the basic techniques in two and three dimensional art deemed essential on the kindergarten-primary levels.

A317 JAPANESE ART (Spring 1978)

Prerequisites: A305, GV315, or PH308. Japanese Decorative style emphasizing 13th through 18th century arts. Study will concentrate on the media of lacquer wares, ceramics, gold screen paintings, and woodblock prints. Field trips to relevant exhibits and collections will be part of the curriculum.

A318 ART OF THE NATIVE AMERICAN

("AMERICAN INDIAN ART") (Spring 1978)

The art of the first settlers of the western hemisphere will be intensively surveyed from paleolithic times to the present day, including 16th to 20th century influences of the European conquerors. Major works of

the Olmec, Aztec, Mayan, Inca, Northern Tribal Nations of the Plains, Woods, Forests, Islands, and Snow Regions will be examined.

A325 ART FOR THE ELEMENTARY SCHOOL

For elementary education majors. An introduction to various philosophies of art education, past and present. This course is designed to acquaint future teachers with the wide scope in the various areas of child growth and development as related in their art. Students experiment with the various media appropriate to the elementary art program.

A326 ARTS AND CRAFTS:

ELEMENTARY LEVEL

1 L., 1 S.H.

Prerequisite: A325. For elementary education majors. A workshop course designed to introduce the wide variety of media and materials and the use of these in two and three dimensional art projects.

A401 ADVANCED PAINTING

An advanced painting course, conducted under seminar conditions for philosophical and visual inquiry into the personal style of each student through ideas and critique.

A406 SCULPTURE II (Spring 1978)

This course is designed as a follow-up to A306 (Sculpture I). It is intended to broaden the scope and depth of the student's sculptural expression. Techniques in wood and stone carving as well as direct fabrication in wood, metal and plastic will be stressed.

A410 ART WORKSHOP I

Prerequisite: Students who are Education Majors or minors, Art minors and those from other disciplines whose application for this course is approved by the Art Department. Experiences in the manipulation of both two and three dimensional materials with the purpose of visualizing and developing specific idea-stimulators as set up by the instructor. Objective is to clarify and externalize through art certain ideas, learnings and skills. Especially for use in school-community situations for children 4-14 years of age.

A411 ART WORKSHOP II

Continuation of A410 wherein students will conduct Art Workshops in community elementary schools. Supervision will be by members of the Art Faculty and a project supervisor. Transportation will be provided to and from the college where necessary.

A490 HONORS SEMINAR IN ART OR ART EDUCATION

Under faculty supervision pursuing, in depth, a phase of art, art history, or art education. Involves guided research, studio work, developmental experimentation and written conclusions. Will confer honors if other requirements are satisfied. Hours variable.

FILM AND PHOTOGRAPHY COURSES

AF201 INTRODUCTION TO THE ART OF THE FILM

(Fall 1977)

An overview of film history and theory leading to a basic understanding of film communication and expression. Lectures, discussions, and screenings of feature and short-length theatrical films.

AF301 PHOTOGRAPHY: THEORY AND PRACTICE I

Intended for students with little or no previous experience in photography. Basic technology covered but emphasis will be on photography as a medium of communication and expression. Section 1 only for students with access to 35mm cameras. Section 2 for students without 35mm equipment; cameras will be provided. Registration limited.

AF302 FILM: THEORY AND PRACTICE (Spring 1978)

Intended for students with little or no previous experience in filmmaking. Instruction and practice in Super 8mm filmmaking given but emphasis will be on filmmaking as a medium of communication and expression. Equipment provided. Registration limited.

AF303 SURVEY OF FILM (Spring 1978)

A specific area of film-study will be selected for in-depth analysis each time the course is offered. The area of study will be one of the following: the American feature film, the documentary, the film director, the foreign feature film, the genre film, the propaganda film.

AF304 PHOTOGRAPHY: THEORY AND PRACTICE II (Spring 1978)

Prerequisite: AF301 or instructor's consent. A continuation of AF301, this course will provide limited darkroom experience and will deal with slide-tape presentations, image sequencing, and multiple screen presentations. Registration limited. Students must have access to a 35mm camera.

AF401 SCREEN EDUCATION (Fall 1977)

A course exploring the impact of the popular mass media on society and focusing on the potential of these media for use in formal and informal educational situations through media studies and visual literacy programs.

AF402 ART OF THE FILM (Spring 1978)

A seminar and laboratory course exploring the use and potential application of modern technology in human communication and expression with emphasis on the visual media of photography, film and television. Registration limited and by consent of the Department Chairman.

BIOLOGY

Rita McCauley, Ph.D., Chairperson

Professors Colt, Fowell, McCauley, Woodland. Associate Professors Gesmer, Guimond, Hilton, Kunnenkeri, Segelman, Shan, Veale. Assistant Professors Armstrong, Cosgrove, Hellquist, Murray, Olson, Parsons, Priest, Tierney, Instructor Yelle.

The department offers both major and minor programs in biology. Two semesters of mathematics are required. Two semesters of physics are recommended. All biology majors must complete BI 103, BI 107-108, BI 215, BI 302, BI 306, and BI 401. Unusual program situations may be adjusted with the consent of the chairman of the department.

Students preparing to teach biological sciences must fulfill the requirements of the Department of Biology and the Department of Secondary Education.

All biology majors and minors are required to register with the department.

A minor in biology may be developed from a combination of biology courses for which the student has the stated prerequisites.

STUDENTS REGISTERING FOR BIOLOGY COURSES WHICH INCLUDE LABORATORY EXPERIENCES ARE REQUIRED TO ATTEND LABORATORY SESSIONS.

All courses meet every semester unless otherwise indicated.

BI 101 BIOLOGY I 2 L.

The course introduces the student to the principles and problems basic to an understanding of life processes. Lectures and discussions are planned to broaden the concepts gained from laboratory work.

BI 102 BIOLOGY II 2 L.

Prerequisite: BI 101. A continuation of Biology I. Lectures and discussions are coordinated with laboratory work and readings.

BI 103 FRESHMAN ORIENTATION SEMINAR IN BIOLOGY I (Fall) 0 S.H.

Current development in biology will be discussed. Required of all future biology majors.

BI 107 PRINCIPLES OF BOTANY (Fall) 4 L., 4 S.H.

This course deals with the biology of the plant kingdom. Lectures, demonstrations, laboratory work, and readings will be used.

BI 108 PRINCIPLES OF ZOOLOGY (Spring) 4 L., 4 S.H.

Prerequisite: BI 107. An introduction to the major animal groups, with emphasis on the invertebrates. Structure, function and biological principles are stressed.

BI 204 BIOLOGY OF THE LOWER PLANTS (Spring) 2 L., 4 S.H.

Prerequisite: BI 101 or BI 107. A consideration of the structure, functioning, and life cycles of significant representatives of the algae, fungi, lichen, liverworts, mosses, and ferns.

BI 209 ENVIRONMENTAL BIOLOGY

Course deals with man's interrelationship with his environment and the problems this presents in today's world. Topics to be discussed will include nutrition, energy, water, air, open space, radiation, wilderness, wildlife, and populations. Optional field trips.

BI 210 SOCIAL BIOLOGY

This course deals primarily with the biological nature of man, his behavior, and his needs. Population, food supply, health and disease, sex, genetics, and evolution are some of the areas of concern. Lectures and discussion.

BI 211 ANATOMY 4 L.

Prerequisite: BI 102. A study of the structure of the organ systems of man. Laboratory includes a dissection of the cat and selected sheep organs. Open to Physical Education majors and others with permission of the department chairperson.

BI 212 HUMAN PHYSIOLOGY 3 L.

Prerequisite: BI 211. The analysis of the functions of human organ systems including the digestive, muscular, nervous, endocrine, reproductive, circulatory, respiratory and excretory systems. Open to Physical Education majors and others with permission of the department chairperson.

BI 213 ANATOMY AND PHYSIOLOGY I 4 L., 4 S.H.

Prerequisite: BI 102 or BI 108. A study of the human organism correlating structure and physiological mechanisms. Emphasis on skin, skeletal, articular, muscular, nervous, special senses and the endocrine systems. Open to Medical Technology and Nursing majors; others with the consent of the department chairperson.

BI 214 ANATOMY AND PHYSIOLOGY II 4 L., 4 S.H.

Prerequisite: BI 213. Emphasis on the digestive, circulatory, respiratory, excretory, and reproductive systems. Open to Medical Technology and Nursing majors; others with the consent of the department chairperson.

BI 215 VERTEBRATE MORPHOGENESIS (Fall) 6 L., 5 S.H.

Prerequisite: BI 102 or BI 108. An integration of vertebrate comparative anatomy and embryology which considers mechanisms, interdependence, and the factors underlying structural transformations.

BI 216 VERTEBRATE PHYSIOLOGY (Spring) 2 L., 4 S.H.

A study of the life processes of vertebrate animals, including circulation, respiration, excretion, digestion, reproduction, nervous systems, special sense organs, and the endocrine system.

BI 221 FIELD BIOLOGY (Fall)

Prerequisite: BI 102 or BI 108. A taxonomic survey of the flora and fauna of the New England region designed to acquaint the student with these forms through observation and the use of field guides, taxonomic keys and collections will be required.

BI301 DRUGS: USE AND MISUSES

An in-depth study of all categories of drugs and their actions on the body. Both use and misuse will be discussed. Various aspects of the drug problem such as sociological, psychological and pharmacological will be covered.

BI302 CELLULAR BIOLOGY (Spring) 4 L., 4 S.H.

Prerequisites: BI102 or BI108, CH203 or CH207. The components of cells, their nature, characterization and functional role.

BI303 HISTOLOGY AND HISTOLOGICAL TECHNIQUES (Fall) 4 L., 4 S.H.

Prerequisite: BI102 or BI108. A study of cells and tissues with attention given to their relation to the anatomy and physiology of the whole organism. Practice will be given in the preparation of tissues for microscopic study.

BI304 INTRODUCTION TO EXPERIMENTAL BIOLOGY (Spring) 4 L., 4 S.H.

Prerequisites: BI102 or BI108, BI204, CH102 or CH108. An introduction to the particular working of the scientific mind through participation both as an individual and as a team member in work on a series of investigatory units.

BI305 HISTORY OF BIOLOGY (Spring) 2 S.H.
A survey of the evolution of knowledge of the biotic world leading to a concept of the present state of biological science and the problems it faces.

BI306 ECOLOGY I (Spring)
Prerequisite: BI102 or BI108. A study of the relationships of plants and animals to their environment. Behavior, structure, adaptation, and natural selection are the central themes. Three optional field trips.

BI307 ECOLOGY II (Fall)
Prerequisite: BI306. Continues and presupposes BI306 dealing primarily with the patterns and origins of plant and animal distribution of the earth. The role of natural selection as an adaptive agent is emphasized.

BI308 MARINE BIOLOGY (Spring) 2 L.
Prerequisite: BI102 or BI108. A study of the ocean and the life within it with emphasis on New England marine invertebrates, fish, and algae. Laboratory experiences and/or field trips.

BI309 AQUATIC BIOLOGY OF HIGHER PLANTS AND ANIMALS (Fall) 2 L., 4 S.H.
Prerequisite: BI102 or BI108. A study of the freshwater vascular plants and lower vertebrates, their life history, environmental relationships and identification. Optional field trips.

BI311 HEMATOLOGY (Fall)
Prerequisite: BI102 or BI108, CH102 or CH108. An introduction to the theory and practice of hematologic examinations. Study of morphological characteristics of blood cells, their origins, development and abnormalities in addition to the laboratory tests required to examine these characteristics.

BI312 MEDICAL MICROBIOLOGY 4 L., 4 S.H.
Prerequisites: BI102 or BI108, CH102 or CH108. Required of medical technology and nursing majors. An introduction to research, methods, principles and theories in isolation, cultivation, identification, and control of pathogens.

BI313 MICROBIOLOGY 4 L., 4 S.H.
Prerequisites: BI102 or BI108, CH102 or CH108. Fundamentals of structure, growth, and habitat of the major groups of microorganisms. Laboratory experiences will give training in the basic methods of observation, propagation, and study of microorganisms.

BI401 GENETICS (Fall) 4 L., 4 S.H.
Prerequisite: BI102 or BI108, one year of college mathematics. An introduction to the principles and physical basis of heredity. Laboratory experiences will include fundamental techniques used in modern genetic research.

BI402 ADVANCED MICROBIOLOGY (Spring) 4 L., 4 S.H.
Prerequisite: BI313. A study of the isolation, identification and physiological activities of microbial life as related to human needs. Principles of immunity and serology will also be discussed.

BI403 HUMAN GENETICS (Fall)
Prerequisite: BI102 or BI108. Elective for majors in medical technology. Others with consent of department chairperson. The theories and principles of heredity and variation as applied to human development.

BI405 SPECIAL PROBLEMS IN BIOLOGY
Prerequisite: BI304. Investigation into an open ended biological problem chosen from the student's special interests and needs. Open to biology majors and others with the consent of the department chairperson.

BI409 PLANT PHYSIOLOGY (Fall) 4 L., 4 S.H.
Prerequisite: BI302. The major physiological processes of plants.

BI410 PARASITOLOGY (Spring) 4 L., 4 S.H.
Prerequisite: BI102 or BI108. A study of symbiosis emphasizing commensalism, parasitism, and mutualism including parasites of medical importance.

BI412 PHYSIOLOGICAL ECOLOGY (Spring)
Prerequisites: BI216, BI306. Comparative study of physiological adjustments which animals make in response to environmental factors,

with emphasis on the physiological basis of animal distribution and evolution.

BI490 HONORS RESEARCH IN BIOLOGY (Fall)
Prerequisite: BI304. The student will conduct independent research under faculty direction and will present an oral and written presentation of the investigation. Prospective students should register with the Biology Honors Coordinator at the end of the Junior year. Open only to Senior Biology majors.

CHEMISTRY

Henry Mariani, Chairman

Professors McDonagh, Pappas. Associate Professors Caputo, Lembo, Mariani. Assistant Professors Reardon, Sanford, Thompson.

The department offers courses leading to a variety of goals. The chemistry major sequence follows the requirements set out by the American Chemical Society. These courses will prepare students to continue their education in graduate school or to follow a career in industry. Majors in chemistry are required to take the following courses: CH101, CH102, CH201, CH202, CH203, CH204, CH302, CH303, CH304, and CH306.

In addition, CH402, CH403 and CH460-461 (research) are recommended as electives. These are included in the guidelines set forth by the American Chemical Society.

To earn a minor in chemistry, the following two course sequences are recommended: CH101, CH102, CH205, CH207 and CH305 or CH307 or if you plan to apply to either a medical or dental school, CH101, CH102, CH203, CH204 and CH305.

Chemistry majors with a secondary education minor are required to take CH101, CH102, CH205, CH207, CH303, CH304 and two chemistry electives from the list of required chemistry courses.

SUGGESTED PROGRAM FOR CHEMISTRY MAJORS

Freshman Year		
	CH101	CH102
	M105	M106
Sophomore Year		
	CH203	CH204
	M205	M206
	P101	P102
Junior Year		
	CH201	CH202
	CH306	CH305
	Math elective	Math elective
Senior Year		
	CH303	CH304
	CH302	CH elective
	CH Res.	CH Res.

Major requires only 36 semester hours

All courses meet every semester unless otherwise indicated.

CH101 PRINCIPLES OF CHEMISTRY I 3 L., 4 S.H., 1 R.*
Principles and concepts which form the bases of chemical theory are emphasized. Atomic and molecular structure, chemical bonding, kinetic theory, periodicity and stoichiometry. The laboratory is designed to reinforce the concepts covered in lecture.

CH102 PRINCIPLES OF CHEMISTRY II 3 L., 4 S.H., 1 R.*
Prerequisite: CH101. A continuation of CH101. Topics covered: solutions, acid-base, and equilibrium theory, thermochemistry, electrochemistry and nuclear chemistry. The laboratory consists of more advanced work in techniques and qualitative analysis.

CH105 ENVIRONMENTAL CHEMISTRY (Fall)
A survey course for students interested in learning the impact of modern chemistry and chemical technology on the environment. A brief survey of the chemical principles needed to intelligently discuss the course material will be followed by a consideration of air pollution, water pollution, pesticides, food additives, and energy sources. *Not open to chemistry majors.*

CH107 INTRODUCTION TO**CHEMISTRY I (Fall)**

2 L., 4 S.H., 1 R.*

Atomic and molecular structure, bonding energetics and chemical reactions as well as the theoretical principles of general chemistry are considered. *Required for nursing majors. Also open to non-science majors.*

CH108 INTRODUCTION TO**CHEMISTRY II (Spring)**

2 L., 4 S.H., 1 R.*

Prerequisite: CH107. Basic organic chemistry, nomenclature, classes of compounds and reactions of these classes are discussed as an introduction to a survey of biochemistry. *Required for nursing majors. Also open to non-science majors.*

CH200 FOOD AND NUTRITION

Prerequisite: One year of Chemistry. Fundamentals of nutrition and diet. The types and classes of foods and their nutritive value. Diet and health with some consideration of the modifications of diet required under certain conditions.

CH201 QUANTITATIVE ANALYSIS I (Fall)

4L., 4 S.H.

Prerequisite: CH102. A laboratory and lecture course which treats the areas of gravimetric analysis, acid-base theory, aqueous and non-aqueous neutralization reactions and titrations involving precipitate formation.

CH202 QUANTITATIVE ANALYSIS II (Spring)

4L., 4S.H.

Prerequisite: CH201. Complexometric and redox methods of analysis are covered as well as potentiometric, conductometric, spectrophotometric and chromatographic techniques.

CH203 ORGANIC CHEMISTRY I (Fall)

4 L., 4 S.H.

Prerequisite: CH102. Nomenclature, detailed treatment of structure, stereochemistry, mechanisms of reactions and synthetic procedures of the following classes of compounds: hydrocarbons, alkyl halides, alcohols, carboxylic acids, and carbonyl compounds. The laboratory work is designed to develop techniques and experience in syntheses of liquid substances.

CH204 ORGANIC CHEMISTRY II (Spring)

4 L., 4 S.H.

Prerequisite: CH203. A continuation of CH203 with a treatment of amines, carbonic acid derivatives, sulfur compounds, amino acids, proteins, sugars, benzene and its derivatives. The laboratory work involves techniques of handling solids and the synthesis of solid substances.

CH205 QUANTITATIVE CHEMISTRY (Fall)

3 L., 4 S.H.

Prerequisite: CH102 or CH104. A survey of analytical procedures. Topics included will be gravimetric and volumetric analysis, the pH meter, spectrophotometry and chromatography. *Not open to chemistry majors.*

CH207 FUNDAMENTALS OF**ORGANIC CHEMISTRY (Spring)**

3 L., 4 S.H.

Prerequisite: CH102. The fundamentals of organic chemistry are discussed. Topics included will be structure nomenclature, functional groups, reactions, methods of synthesis and analytical procedures. The biological aspects of organic compounds will be noted whenever possible. *Not open to chemistry majors.*

CH208 THERMODYNAMICS (Fall)

Prerequisites: CH102, 2 semesters calculus. The axiomatic study of the nature of energy. Logically necessary consequences are deduced which describe the interaction of energy with matter. Applications to general and chemical engineering are given.

CH221 INSTRUMENTATION IN**CLINICAL CHEMISTRY (Spring)**

3 L., 4 S.H.

Prerequisites: CH102, CH201 or CH205. The course is concerned with the theory and use of instruments in general use in clinical laboratories.

CH302 INORGANIC CHEMISTRY (Fall)

Prerequisite: CH303 concurrently or by permission of instructor. The consideration of the modern theories of atomic structure, chemical bonding, and molecular structure and their application to various topics in inorganic chemistry such as acid-base theory, ionic crystals, boron hydrides and coordination compounds.

CH303 PHYSICAL CHEMISTRY I (Fall)

4 L., 4 S.H.

Prerequisites: CH202, M206, P102. Laws and natures of gases, liquids and solids. Properties of solutions and thermochemistry. Intensive laboratory exercises in these areas accompany the lectures and are an integral part of the course.

CH304 PHYSICAL CHEMISTRY II (Spring)

4 L., 4 S.H.

Prerequisite: CH303. A detailed study of types of equilibria, chemical kinetics, and electrochemistry. The laboratory is a continuation of the first semester, with more complex techniques and more advanced experiments.

CH305 BIOLOGICAL CHEMISTRY (Spring)

3 L., 4 S.H.

Prerequisites: CH205, CH207. Chemistry of carbohydrates, lipids, proteins and other materials of biological importance; the transport, reactions and role of these substances in the living organism are treated along with intermediary metabolism and biological oxidation.

CH306 QUALITATIVE ORGANIC**ANALYSIS (Spring)**

4 L., 4 S.H.

Prerequisites: CH202, CH204. Qualitative and quantitative analysis of selected organic compounds will be used to teach the fundamentals of research techniques in the field of organic chemistry.

CH307 RADIOCHEMISTRY (Fall)

3L., 4 S.H.

Prerequisite: CH205. Types of radioactive decay, methods of detection and measurement of radioactivity and the application of radioactivity to various scientific disciplines are discussed. Laboratory work in tracer methodology, counting techniques and health physics.

CH308 RADIATION PROTECTION (Spring)

Prerequisite: CH307. A study of the hazards associated with radiation and radioactive materials, the means of recognizing and measuring them as well as the methods by which they may be controlled. State and federal regulations, guidelines and recommended practices are included.

CH402 BIOCHEMISTRY (Spring)

4 L., 4 S.H.

Prerequisites: CH204, CH304. Protein structures and conformations, protein interactions, proteins as enzymes, oxidations, free energy and kinetics of biological systems are considered.

CH403 CHEMICAL**INSTRUMENTATION (Spring)**

4 L., 4 S.H.

Prerequisite: CH304. The theory and application of modern methods of instrumentation useful in chemical analysis will be discussed. Emphasis will be placed on electromechanical methods, spectrophotometry, chromatography and nuclear magnetic resonance.

CH407 SYNTHETIC ORGANIC CHEMISTRY (Fall)

4 L.

Prerequisite: CH204. Includes the study of additional classes of compounds and special topics of interest in organic chemistry. Emphasis is placed on synthetic methods, including mechanisms, and the scope and limitations of the important name reactions most frequently encountered in synthetic processes.

CH460-461 SENIOR RESEARCH

Research problems under faculty direction involving literature search, laboratory work and a written account of the results. Three semester hours per term.

CH490 SENIOR RESEARCH AND HONORS

Research problems under faculty direction involving literature search, laboratory work and a written account of the results. Will confer honors if other requirements are also fulfilled. Replaces CH461 for honors students.

* R – Recitations

ECONOMICS**Joann P. Stewart, Ph.D., Chairperson**

Professors Parente, Stewart. Associate Professor Jacobs. Assistant Professor Chiong.

An Economics major is available for all liberal arts candidates

working for the B.A. degree. To complete a degree in Economics students are required to take 30 hours in the field, 15 of which are required: EC101, EC102, EC301, EC302, EC412. (M401 may be substituted for EC412). Of the remaining 15 hours *only 6 may be taken in business courses (marked with an asterisk*) offered through the Department*. Otherwise, the economics courses (non-asterisked) and the business courses are not interchangeable.

It is suggested that students planning to take economics courses select for their mathematics requirements either M103, M104 or M109. A student may complete a minor in Economics by taking EC101 and EC102 plus 4 other Economics courses, *only one of which may be in business economics.** For those majors who plan to go to graduate school, it is strongly urged that they minor in mathematics.

A business economics minor may be completed by taking both Economics Principles (EC101, EC102) and Accounting Principles (EC103, EC104) and 3 other business courses* offered through the Department.

The Economics Department participates in the Honors Program. It also belongs to the National Honors Society in Economics.

All courses meet every semester unless otherwise indicated.

EC101 PRINCIPLES OF ECONOMICS I

A study of the basic institutions of capitalism; the determination of income employment and prices; the monetary system; and economic growth and pollution.

EC102 PRINCIPLES OF ECONOMICS II

Prerequisite: EC101. An introduction to supply and demand analysis; production theory; the distribution of income and wealth; international economics; and comparative economic systems.

***EC103 ACCOUNTING PRINCIPLES I**

A study of the basic principles of accounting and their uses as tools for economic analysis and managerial decision making.

***EC104 ACCOUNTING PRINCIPLES II**

Prerequisite: EC103. Covers topics such as budget administration, cost accounting systems, full and direct costing, differential costing, income determination, and use of return on investment.

EC202 RADICAL POLITICAL ECONOMICS

Prerequisite: EC102. An analysis of western capitalism using nonorthodox theories (Marx, Mao, Baran, Mandel). Focuses on problems of alienation, irrationality, and imperialism.

***EC203 INTERMEDIATE ACCOUNTING I (Fall)**

Prerequisites: EC102, EC104. The first professional level course for accounting and financial majors. A study of accounting theory and concepts with emphasis on current application, new developments and controversies in financial reporting.

***EC204 INTERMEDIATE ACCOUNTING II (Spring)**

Prerequisite: EC203. A continuation of the discussion of accounting theory and its development relative to underlying issues in economics and finance. Addresses special problems in applications in the business corporation. Provides introduction to specialized topics in auditing, taxation and cost accounting.

EC205 LABOR ECONOMICS

Prerequisite: EC102. An analysis of manpower economics including unemployment, labor markets stressing wages and mobility, and unions with emphasis on the effects of collective bargaining and the law.

***EC206 LABOR RELATIONS**

Prerequisite: EC102. Institutional arrangements with respect to employees. Studies labor union history, labor law and the collective bargaining process.

EC207 MONEY, BANKING AND CREDIT (Fall)

Prerequisite: EC102. A study of the monetary system in the United States including the structure and organization of the commercial banking system; the framework and process of Federal Reserve control; and non-bank financial intermediaries.

EC209 HISTORY OF TECHNOLOGY

A study of technological change and its effects on production, productivity, living standards, occupations, and continuing technological advance. *Course offering to be announced.*

EC301 INTERMEDIATE ECONOMIC THEORY: MACROECONOMICS (Fall)

Prerequisite: EC102. Examines in simple model form the essential sectors of the economy viewed in terms of aggregate spending and total resource supply; and involving both fiscal and monetary approaches to considerations of stability and growth.

EC302 INTERMEDIATE PRICE THEORY: MICROECONOMICS (Spring)

Prerequisite: EC102. Analyzes the theory of demand, costs, production and market structure giving consideration to the allocation and distribution of resources.

EC303 ECONOMICS OF URBAN PROBLEMS (Fall)

Prerequisite: EC102. Study of economic and financial costs and benefits of urban change and growth; covers such topics as industrial structure, labor markets, transportation, housing, education and income distribution.

EC304 GOVERNMENT AND BUSINESS (Spring)

Prerequisite: EC102. An analysis of the effect on market performance of government policies to promote competition and regulate monopoly.

EC305 INTERNATIONAL ECONOMICS (Fall)

Prerequisite: EC102. Theory of international trade, theory of factor movements, balance of payments, monetary adjustments, effects of tariffs; role of international agencies, and the third world.

EC306 AMERICAN ECONOMIC HISTORY (Fall)

Prerequisite: EC102. An analytical study of the growth and development of the American economy from the colonial period to the present.

EC307 COMPARATIVE ECONOMICS (Spring)

Prerequisite: EC102. An analytical study of various forms of organizing economic activity, including centrally planned, mixed and free market economies.

***EC308 CORPORATE FINANCE**

Prerequisites: EC102, EC104. Distribution of corporate assets; sources and costs of short- and long-term funds; relevant institutions.

***EC309 INVESTMENT PRINCIPLES (Fall)**

Prerequisites: EC102, EC104. Criteria for investment decision making; problems of risk, size, and timing of investment; consideration of depreciation and technological change.

EC310 PUBLIC EXPENDITURE AND TAXATION (Spring)

Prerequisite: EC102. Study of spending and taxation by all levels of government; examines major kinds of taxes indicating incidence and policy implications; analyzes effects of allocation or resources, distribution of income and stabilization of the economy.

EC311 ECONOMIC DEVELOPMENT (Spring)

Prerequisite: EC102. The special problems of growth in underdeveloped countries; capital requirements, institutional change, population problems, and free markets vs. central planning form the core of the course.

***EC312 MARKETING**

Prerequisites: EC102, EC104. A study of the marketing system, emphasizing the interrelationships between the business firms and consumers, government and economic institutions. Focuses on marketing functions and activities in the business firm: market research and analysis, product development, advertising, sales and distribution.

***EC313 ADVERTISING AND CONSUMER BEHAVIOR**

Prerequisite: EC312. A study of the techniques used by marketers to ascertain consumer wants, and transform this knowledge into promotional campaigns.

EC318 INDUSTRIAL ORGANIZATION (Fall)

Prerequisite: EC102. An analysis of the effect of industrial market structure on market conduct and performance of the economy.

EC401 MONETARY THEORY AND POLICY (Spring)

Prerequisite: EC301. An analysis of the classical theory of money, money in the Keynesian system, restatement of the quantity theory, interest theory, price behavior, and elements of domestic and international monetary policy.

EC403 BUSINESS CYCLES AND GROWTH

Prerequisite: EC301. An examination of growth and cycles in advanced capitalistic countries with special attention to growth and problems of growth in the United States since World War II.

*EC404 MANAGEMENT ECONOMICS

Prerequisites: EC102, EC104. The decision making process in a business enterprise, cost analysis, linear programming, and the theory of organization.

EC412 INTRODUCTION TO ECONOMETRICS (Fall)

Prerequisite: EC102. An analysis of measures of central tendency and dispersion, probability and sampling theory; hypothesis testing; index numbers; regression and correlation analysis, and time series analysis.

EC490 SPECIAL TOPICS IN ECONOMICS

The student will do independent research on a topic determined by the student in consultation with members of the department.

ELEMENTARY EDUCATION

Mary E. Rice, Ph.D., Chairperson

Professors DePlacido, Miller, Newell, Rice. Associate Professors Clancy, Collins, Durant, McCarthy, Norman, Phelan, Pula, R. Sullivan. Assistant Professors Barrett, Celi, Galvin, Moloney, Zaleskas.

The Department of Elementary Education offers the following majors:

- Elementary Education
- Early Childhood Education
- Elementary Education - Urban Specialization

Each program has as its major objectives the preparation of teachers who have the knowledge, attitudes, and skills required for the successful guidance of learning activities in either a general or specific school situation. Basic courses are required in both general and specific methods of teaching, as well as theoretical considerations of how children learn. Many courses provide the prospective teachers with a field based experience where they develop the range of skills necessary for a successful experience in the full-time professional semester of student teaching.

A student majoring in elementary education, early childhood, or elementary education - urban specialization must develop a minor.

Students are encouraged to consult with their department chairperson/advisor early in their freshman year, or as soon as possible after transfer into the college, and prior to registration each semester for academic advising. Students wishing to develop a Contract Minor must have departmental approval in writing prior to beginning the minor or concentration.

Major in Elementary Education

Students are advised that the numeration of courses indicates the sequence in which the courses are designed to be taken.

BLOCK I: All courses must be taken to fulfill Elementary Ed. Requirements.

Cat. No.	Course Name	S.H.
*EL223	Principles and Current Techniques of Teaching	3
*EL227	Observation	3
EL321	Communicative Arts, Reading	3
EL322	Communicative Arts, Language	3
EL328	Social Studies Methods	3
EL329	Science Methods	3
EL422	Educational Measurement	3
**M326	Methods of Teaching Math in the Elementary School (prerequisite needed)	3
**PY201	Developmental Psychology I	3

Total: 27 Hours

BLOCK II: Select one course.

A325	Art for the Elementary School	3
PE301	Physical Education Methods	3
MS422	Music, Elementary School	3

Total: 3 Hours

BLOCK III: Select any two courses from the following:

EL325	Media Materials for Elementary Classroom Learning	3
EL331	Reading for the Above Average	3
EL332	Development and Implementation of Individualized Educational Plans	3
EL333	Behavioral and Classroom Management (prerequisite needed)	3
EL401	Remedial Reading (prerequisite needed)	3
PY312	Psychology of Exceptional Children I	3
E321	Literature for Children	3
EL362	Seminar in Creative Materials and Curriculum Resources in the Elementary School	3
EL364	Reference and Bibliography Sources in the School Library	3
EL366	Classification and Cataloging of Print and Non-Print Instructional Materials	3
EL462	Organization and Administration of the School Library Media Center	3
EL330	Cultural and Historic Perspectives	3
EL336	Alternate Approaches to the Teaching of Reading	3
PY203	Educational Psychology	3

Total: 6 Hours

BLOCK IV: All elementary majors will student teach for one full semester.

EL400 Student Teaching and Seminar

Total: 15 Hours

*These courses are prerequisites for all elementary education courses.

**The Prerequisites for these courses can be met by a careful selection of General Education requirements.

Early Childhood Education

Students are advised that the numeration of courses indicates the sequence in which the courses are designed to be taken.

BLOCK I: All courses must be taken to fulfill Early Childhood Education Requirements.

Cat. No.	Course Name	S.H.
*EL210	Principles and Current Techniques—Primary	3
*EL313	Principles and Current Techniques—Kindergarten	3
*EL217	Observation	3
EL311	Communicative Arts—Reading (K-P)	3
EL312	Communicative Arts—Language Arts (K-P)	3
EL318	Instructional Strategies in Science and Social Studies	3
EL422	Educational Measurement	3
**M316	Methods of Teaching Mathematics in the K-P	3
**PY201	Developmental Psychology I	3

Total: 27 Hours

BLOCK II: Select one course.

A315	Art for the Kindergarten-Primary Level (Includes Arts and Crafts)	3
PE301	Physical Education Methods	3
MS411	Music, Kindergarten-Primary	3

Total: 3 Hours

BLOCK III: Select any two courses from the following:

EL325	Media Materials for Elementary Classroom Learning	3
EL331	Reading for the Mature Learner	3
EL332	Development and Implementation of Individualized Educational Plans	3
EL333	Behavioral and Classroom Management	3
EL401	Remedial Reading	3
PY312	Psychology of Exceptional Children I	3
E321	Literature for Children	3
EL362	Seminar in Creative Materials and Curriculum Resources in the Elementary School	3
EL364	Reference and Bibliography Sources in the School Library	3

EL366	Classification and Cataloging of Print and Non-Print Instructional Materials	3
EL462	Organization and Administration of the School Library Media Center	3
EL 330	Cultural and Historic Perspectives	3
EL336	Alternate Approaches to the Teaching of Reading	3
PY203	Educational Psychology	3

Total: 6 Hours

BLOCK IV: All Early Childhood majors will student teach for one full semester.

EL400 Student Teaching and Seminar

Total: 15 Hours

*These courses are prerequisites for all early childhood education courses.

**The prerequisites for these courses can be met by a careful selection of General Education requirements.

Elementary Education - Urban Specialization

All freshmen interested in teaching in the urban elementary school are invited to participate in the Workshop in Urban Education (EL220U). Through this workshop, students will work in a public urban classroom one morning each week as a teacher's aide. This experience will serve as a self-screening process by enabling the student to better identify his or her particular area of interest.

BLOCK I: All courses must be taken to fulfill the Elementary Education - Urban Specialization Requirements.

Cat. No.	Course Name	S.H.
**EL220U	Workshop in Multi-Cultural Education	3
*EL221U	Curriculum in the Urban School	3
**PY201	Developmental Psychology I	3
**M326	Methods of Teaching Math in Elementary School	3
EL323U	Principles and Current Techniques - Urban School	3
EL324U	Reading and Language Arts (two semesters)	6
EL329U	Social Learnings in the Urban School	3
EL330U	Science Methods in the Urban School	3
EL422	Educational Measurement	3

BLOCK II: Select one course.

A325	Art for The Elementary School	3
PE301	Physical Education Methods	3
MS422	Music Methods	3

BLOCK III: Select any two courses from the following:

EL325	Media Materials for Elementary Classroom Learning	3
EL331	Reading for the Mature Learner	3
EL401	Remedial Reading	3
PY412	Psychology of Exceptional Children	3
E321	Literature for Children	3
EL362	Seminar in Creative Materials and Curriculum Resources in the Elementary School	3
EL364	Reference and Bibliography Sources in the School Library	3
EL366	Classification and Cataloging of Print and Non-Print Instructional Materials	3
EL462	Organization and Administration of the School Library Media Center	3
EL330	Cultural and Historic Perspectives	3
EL336	Alternate Approaches to the Teaching of Reading	3
PY203	Educational Psychology	3
EL332	Development and Implementation of Individualized Educational Plans	3
EL333	Behavioral and Classroom Management	3

BLOCK IV: All Elementary Education - Urban Specialization Majors will student teach for one semester.

EL400 Student Teaching and Seminar 15

*These courses are prerequisites for all Elementary Education courses.

**The prerequisites for these courses can be met by a careful selection of General Education requirements.

Minors

School Library Science (18 Hours)

EL362	Seminar in Creative Materials and Curriculum Resources in the Elementary School
EL364	Reference and Bibliography Sources in the School Library
EL366	Classification and Cataloging of Print and Non-Print Instructional Materials
EL462	Organization and Administration of the School Library Media Center
EL325	Media Materials for Elementary Classroom Learning
EL367	Practicum in School Library Science

Teaching Reading (18 Hours)

EL331	Reading for the Above Average Child
EL336	Alternate Approaches to Reading
EL369	Reading for Children with Special Needs
EL401	Remedial Reading
ED341	Improving Reading Skills in the Secondary School

And one of the following:

E321	Childrens Literature OR
EL362	Seminar in Creative Materials and Curriculum Resources in the Elementary School
EL325	Media Materials for Elementary Classroom Learning

Multi-Cultural Education (Restricted to Elementary Education - Urban Specialization students) (18 Hours)

Required of ALL Urban Specialization Majors:

EL220U	Workshop in Urban Education
EL221U	Curriculum in the Urban School

12 credits to be selected from the following areas of concentration:

- A. The Family
- B. The Community
- C. The Child in the Community
- D. Afro-American Studies
- E. Bilingual Education
- F. ESL (English as a Second Language)

Bilingual Education

See catalog descriptions listed under Foreign Language Department.

There is no guarantee that all courses will be offered each semester.

EL210 PRINCIPLES AND CURRENT TECHNIQUES — PRIMARY

This course develops skills in lesson planning, unit construction, methods and materials used in each of the primary grades. The history of primary education, organizational patterns and curricula are studied.

EL217 LABORATORY EXPERIENCES IN THE KINDERGARTEN-PRIMARY SCHOOL

The purpose of this course is to place students in a classroom with young children to determine methods and materials used in helping children learn.

EL220U WORKSHOP IN MULTI-CULTURAL EDUCATION — FIELD BASED

Students will determine their own point of view, learn how to form judgments, and draw conclusions about their attitudes. Students will spend one morning a week in an urban school serving as aides in services essential to the functioning of the school.

EL221U CURRICULUM IN THE URBAN SCHOOL — FIELD BASED

PREREQUISITE: EL220U. Learning experiences will be provided to help the students recognize the basis for constructing curriculum determined by the needs of the child in his particular urban environment.

EL223 PRINCIPLES AND CURRENT TECHNIQUES OF TEACHING

This course introduces the student to the elementary school curriculum through lesson planning, units, materials, methods and classroom organization. Laboratory school experience included.

EL227 LABORATORY EXPERIENCES IN THE ELEMENTARY SCHOOL

Each student will be placed in a public school and provided with opportunities to observe and participate in a variety of educational, managerial and mechanical operations responsible for the efficient operation of the school.

EL311 COMMUNICATIVE ARTS — READING

Emphasis is on methods, materials, and techniques, currently used in teaching reading to young children from reading readiness through primary levels.

EL312 COMMUNICATIVE ARTS — LANGUAGE (Early Childhood)

This course deals with helping children develop the various language arts skills as creative tools of communication. Concentration centers on children in kindergarten and the early grades.

EL313 PRINCIPLES AND CURRENT TECHNIQUES — KINDERGARTEN AND PRESCHOOL

This course introduces the student to the history of preschool education. It focuses on child-centered education through the kindergarten level.

EL318 SCIENCE AND SOCIAL STUDIES METHODS

This course focuses on materials, methods, and objectives useful in designing meaningful learning experiences in these areas.

EL321 COMMUNICATIVE ARTS — READING (Elementary)

Prerequisite: EL223. The primary emphasis is on developmental reading at each of the six elementary grades.

EL322 COMMUNICATIVE ARTS — LANGUAGE (Elementary)

Prerequisite: EL223. Examines the related components of the language arts and instructional strategies for classroom effectiveness in the development of desirable language growth patterns in children.

EL323U PRINCIPLES AND METHODS IN URBAN SCHOOLS — FIELD BASED

Prerequisite: EL220U. The students will examine topics of current concern in the practice of urban education. Emphasis will be placed on evaluating objectives, methodology, and content.

EL324U METHODS AND MATERIALS FOR TEACHING READING AND LANGUAGE ARTS IN URBAN SCHOOLS

Prerequisite: EL323U. This course will be taught in a three hour block with clinical experiences in an open school. Emphasis will be on developmental reading methods and materials.

EL325 MEDIA MATERIALS FOR ELEMENTARY CLASSROOM LEARNING: SELECTION, EVALUATION, UTILIZATION

Prerequisite: EL223. At the end of this course the student will be able to select, evaluate and utilize from among a wide variety, appropriate audio and visual materials to provide successful learning experiences (for the elementary school child).

EL328 SOCIAL STUDIES METHODS

Prerequisite: EL223. Analysis of methods of teaching social studies with provision for involvement in activities geared to inquiry-based learning.

EL328U SOCIAL LEARNINGS IN THE URBAN SCHOOL

Field based social learnings during a three hour block once each week. Designed to provide process oriented social education with emphasis on decision making, attitude formation and value clarification.

EL329 SCIENCE METHODS

Prerequisite: EL223. An examination of the methods and materials basic to teaching a program in science for children in each elementary grade.

EL329U SCIENCE METHODS IN THE URBAN SCHOOL

An examination of the methods and materials basic to teaching a meaningful program in science for children in an urban environment. This course will include work in an urban classroom with children of varying ages.

EL330 CULTURAL AND HISTORICAL PERSPECTIVES

Designed to give the necessary background for developing knowledge, understanding, and attitudes toward times considered significant in the history of our country, this course is good preparation for developing understandings about celebrations and holidays.

EL331 READING FOR THE ABOVE AVERAGE CHILD

Emphasis will be on learning to identify the gifted, creating conditions for maximum learning and planning programs for bright children.

EL332 DEVELOPMENT AND IMPLEMENTATION OF INDIVIDUALIZED EDUCATIONAL PLANS

The course will examine diagnostic procedures and recommend needed prescriptive techniques for children with disabilities in Reading, Language and Arithmetic so that they might continue in the regular classroom setting.

EL333 BEHAVIOR MODIFICATION AND CLASSROOM MANAGEMENT

This course explores the kinds of behavioral management problems that may arise in the contemporary classroom which seeks to serve both typical and atypical children. The various types of methods and techniques that may be employed to alleviate or obviate these problems will be examined.

EL334 METHODS AND MATERIALS FOR SPECIAL NEEDS CHILDREN IN THE REGULAR CLASSROOM

The course will focus on the individualization of instruction for children with special needs in a regular classroom. Students will develop a rationale and demonstrate skills in individualizing instruction for a variety of children with special needs. Students will prepare appropriate strategies which will support and foster successful learning experiences. Students will also propose and present a rationale for selected management techniques.

EL336 ALTERNATE APPROACHES TO THE TEACHING OF READING

Prerequisites: EL223, EL321. Multi-level readers, individualization, new alphabet systems, programmed learning, linguistically-based and phonics approaches, and the language-experience concept are among the new trends, as alternative approaches to the teaching of reading, which the course will consider.

EL362 SEMINAR IN CREATIVE MATERIALS AND CURRICULUM RESOURCES IN THE ELEMENTARY SCHOOL

Prerequisite: EL223. This course introduces the student to an overview of the elementary school library and provides a work-study investigation of basic instructional and library resources for the elementary teacher.

EL364 REFERENCE AND BIBLIOGRAPHY SOURCES IN THE SCHOOL LIBRARY

Prerequisite: EL362 or ED335. A study and evaluation of basic reference sources and bibliographical tools used in the school library. Chief emphasis will be placed upon the philosophical, organizational, and administrative aspects of research techniques and reference services.

EL366 CLASSIFICATION AND CATALOGING OF PRINT AND NON-PRINT INSTRUCTIONAL MATERIALS

A discovery of the fundamentals of classification and descriptive and subject cataloging. Special attention will be given to non-print materials, serial publications, and technical processing operations.

EL367 PRACTICUM IN SCHOOL LIBRARY SCIENCE

Prerequisite: all courses in Library Science minor. This course is designed to give students an opportunity for practical application of library science theory in a school library setting.

EL369 TEACHING READING TO THE SPECIAL NEEDS CHILD

Prerequisites: EL223 and EL321. This course is designed to help the reading teacher diagnose and interpret tests, and to plan, organize and implement an instructional program for the remediation of specific reading difficulties.

EL400 STUDENT TEACHING AND SEMINAR 15 S.H.
A laboratory course of a full semesters duration providing full-time student teaching in a public school. It is the responsibility of each student to fill out an application for student teaching placement by the end of his fifth term.

EL400LM STUDENT TEACHING FOR ELEMENTARY EDUCATION URBAN STUDENTS WITH BILINGUAL MINORS 15 S.H.
Students will spend half their time in an elementary classroom and half in a classroom with children who speak a native language.

EL401 REMEDIAL READING
Prerequisites: EL223 and EL321 for elementary majors; EL210 and EL311 for kindergarten-primary majors. Emphasis will be on children with reading problems. Each student will spend part of his time tutoring a child with reading disabilities two hours weekly (two one-hour sessions).

EL422 EDUCATIONAL MEASUREMENT
A survey of measurement and evaluation procedures as they apply to the day-to-day activities of the elementary school teacher.

EL462 ORGANIZATION AND ADMINISTRATION OF THE SCHOOL LIBRARY MEDIA CENTER
An overview of library management principles with special regard to objectives, physical plant, staffing, scheduling, book selection policies and acquisition.

ENGLISH

Richard S. Tyrell, Chairman

Professors Green, Howe, Kenney, Kenosian, Lerch, Petronella, Rosenthal, Tyrell. Associate Professors Casey, Danker, Foley, Gainor, H. Gormley, Hoffer, Kean, Kelly, Mansfield. Assistant Professors Bertone, Bondelevitch, Bufalini, Connelly, Ernest, Gordon, Gormley, Griffin, Ivers, Jurich, Kutz, Lally, Manly, McQuade, Moon, Nelson, Remick, Ryan, Schwartz, Shea, Tillona, Tobin, Tommasini, Travers, Walsh, Wolf. Instructors Shaw, Thornton.

The Department of English offers to all students instruction in writing and speech, and introductory courses in British and American Literature. It further offers courses in linguistics and in literature, by period or type, from Chaucer to the present day.

The English composition requirement may be satisfied by the achievement of a score of 5, 4, or 3 in the Advanced Placement Test of the CEEB. If a student attains a grade of 4.0 in E101, he may begin the literature sequence in the second semester. All students must successfully complete E101 and then E102, English Composition, before taking courses in literature.

Students may satisfy the speech requirement by passing a proficiency examination or by completing E103, Effective Speech. Students should take the proficiency examination during their sophomore year, and they should not, in any case, postpone the examination beyond their junior year.

The speech proficiency examination is given at the beginning of each semester. To be eligible to take this examination, the student must register for the *E103 – Test Only* section. The examination has a written and oral section. The written section, given to registered students as a group, tests the student's knowledge of the speaking process, types of public speeches and effective delivery skills. The oral section, administered individually during the term, tests the student's ability to read aloud and to speak.

The requirement for the B.A. major concentration shall consist of 36 hours taken in the Department of English, exclusive of E101-E102, English Composition, and E103, Effective Speech. All students majoring in English must take the two semester survey of English Literature (E201-E202) and the two semester survey of American Literature (E205-E206). E433 is required of English majors in the teaching curricula; E434 is required of those in the non-teaching curricula and strongly recommended for those in the teaching curricula. The Department of English also recommends that students majoring in English study a modern language.

The requirement for the B.A. or B.S. minor concentration shall consist of 21 hours taken in the Department of English, exclusive of E101-E102, English Composition. All students minoring in English must take the two semester survey of English Literature (E201-E202) and five upper division electives selected with the approval of a departmental advisor.

Students are urged to consult departmental advisors before determining course selection.

The department has an Honors Program which is open to qualified majors. To enroll, a student must first consult with the Director, and then register at the beginning of the second semester of his junior year for E490, Special Topics in English. Upon successful completion of E490 and a long, carefully researched paper, a student is graduated with honors. The program is especially valuable for those students who are planning to take future graduate work in English.

All courses meet every semester unless otherwise indicated.

COMPOSITION COURSES

E100 ENGLISH FUNDAMENTALS

Emphasizes the development and strengthening of basic writing skills through a review of the principles of grammar and spelling, exercises in vocabulary building, and practice in writing sentences and developing paragraphs. Assigned readings are related to the establishment of fundamental writing skills. *This course does not satisfy the English Composition requirement.*

E101 ENGLISH COMPOSITION I

Review of principles of grammar, sentence structure, and paragraph development; instruction in the writing of expository themes. Assigned readings are related to the goals of the course.

E102 ENGLISH COMPOSITION II

A continuation of E101. Assigned readings, however, are designed to introduce the student to the major literary genres: poetry, drama, fiction.

LITERATURE SURVEY COURSES

E201 BRITISH WRITERS I

A study of selected works from the Anglo-Saxon, Medieval and Renaissance periods through Milton.

E202 BRITISH WRITERS II

A study of selected works beginning with Dryden in the Restoration through the eighteenth, nineteenth, and twentieth centuries.

E203 MASTERPIECES OF WESTERN LITERATURE I

A study of selected works from the Classical Period through the Renaissance.

E204 MASTERPIECES OF WESTERN LITERATURE II

A study of selected works from the Enlightenment through the twentieth century.

E205 AMERICAN WRITERS I

A study of American writers from the colonial period up to Whitman.

E206 AMERICAN WRITERS II

A study of American writers from Whitman to the present.

BRITISH LITERATURE COURSES (listed chronologically)

E312 OLD AND MIDDLE ENGLISH LITERATURE (Beginnings to 1500) (Spring)

A study in translation of selected masterpieces (exclusive of Chaucer's), including epics, romances, ballads, lyric poems, plays.

E315 CHAUCER I (Fall)

A study of the poet's minor works and *Troilus* (in Middle English).

E316 CHAUCER II (Spring)

A study of *The Canterbury Tales* (in Middle English).

E313 RENAISSANCE LITERATURE (1500-1603) (Spring)

A study of the major non-dramatic works of the period, particularly those of More, Sydney, Spenser, Shakespeare, and Donne.

E301 SHAKESPEARE I: TRAGEDIES

A study of selected tragedies.

E302 SHAKESPEARE II: COMEDIES AND HISTORIES

A study of selected comedies and history plays.

E410 ELIZABETHAN AND**JACOBAN DRAMA (1580-1642) (Fall)**

A reading of the major dramatists of the period (excluding Shakespeare), particularly Marlowe, Johnson, and Webster.

E411 EARLY SEVENTEENTH CENTURY LITERATURE (1600-1660) (Fall)

A study of the major writers of the period, particularly Donne and the metaphysical poets, Johnson and the classical poets, and early Milton.

E310 MILTON (Fall)

A study of the Horton poems, *Areopagitica* and other prose works, the sonnets, *Paradise Lost*, *Paradise Regained*, and *Samson Agonistes*.

E412 RESTORATION DRAMA (1600-1700) (Spring)

A study of the plays of Congreve, Wycherley, Dryden, and other major playwrights of the period.

E311 RESTORATION AND AUGUSTAN LITERATURE (1600-1749) (Fall)

A study of the major writers of the period (excluding Milton), particularly Dryden, Pope, and Swift.

E402 LATE EIGHTEENTH CENTURY LITERATURE (1740-1800) (Spring)

A study of Johnson, Boswell, Blake, Burns, and others.

E330 THE EIGHTEENTH CENTURY NOVEL (1722-1816) (Fall)

A study of the development of the English novel from DeFoe to Scott, with emphasis on the works of Richardson, Fielding, Smollet, Sterne, Walpole, and Austen.

E303 ROMANTIC POETRY

A study of the poetry of Blake, Wordsworth, Coleridge, Byron, Shelley, and Keats.

E305 NINETEENTH CENTURY PROSE I (Fall)

A study of the novels of Austen, Thackeray, Dickens, and Emily Bronte, and of the major works of Carlyle, Macaulay, Mill, and Newman.

E306 NINETEENTH CENTURY PROSE II (Spring)

A study of the works of Meredith, George Eliot, Trollope, and Hardy, and of the major prose works of Arnold, Ruskin, Morris, and Pater.

E404 VICTORIAN POETRY (Spring)

A study of the poetry of Tennyson, Browning, Arnold, The Rossettis, Morris, Swinburne, Meredith, Hardy, and Hopkins.

*AMERICAN LITERATURE COURSES (listed chronologically)***E425 EARLY AMERICAN LITERATURE (Spring)**

A study of selected writers and movements of thought in the Colonial Period.

E403 EMERSON, THOREAU AND TRANSCENDENTALISM (Spring)

A study of American Romantic idealism, including social and intellectual movements of the first half of the nineteenth century.

E408 HAWTHORNE, MELVILLE AND JAMES (Spring)

A reading and discussion of the writers' major works.

E422 TWAIN, HOWELLS AND THE RISE OF REALISM (Fall)

A study of Twain's major works, with consideration of his defender in Boston, W.D. Howells, and the realists and naturalists: Garland, Crane, Norris, London.

E416 BLACK AMERICAN LITERATURE I (Fall)

A study of the major works of Black American Literature from slavery to the Harlem Renaissance.

E417 BLACK AMERICAN LITERATURE II (Spring)

A study of the major works of Black American Literature from the Harlem Renaissance to the present.

*MODERN LITERATURE COURSES***E307 MODERN DRAMA I (Fall)**

A study of major modern dramatists, beginning with Ibsen.

E308 MODERN DRAMA II (Spring)

A continuation of E307, with emphasis on recent dramatists and trends in drama. (E307 is not a prerequisite, but offers desirable preparation.)

E406 MODERN NOVEL

An analysis of the novel as an art form through the study of ten notable modern novels.

E407 MODERN SHORT STORY

An analysis of the short story as an art form through the study of selected modern short stories.

E415 MODERN IRISH WRITERS (Spring)

A study of the works of major and minor writers from Yeats to Devlin.

E427 MODERN POETRY I (Fall)

A study of major poets and movements from the early work of Pound through the present.

E428 MODERN POETRY II (Spring)

A study of major British and American poets from the 1950's to the present.

E492 TOPICS IN TWENTIETH-CENTURY FICTION: SEMINAR (Spring)

An intensive study of selected authors and topics reflective of the contemporary scene. Reports will be given and conferences held.

*THEME AND GENRE COURSES***E225 THE ENGLISH BIBLE (Fall)**

A survey of the literature of the Old and New Testaments, with special attention to the genres and to the place of the Bible in English literature.

E314 LITERARY CRITICISM (Fall)

A consideration of the vocabulary of criticism through a diagnostic and topical approach to modes (heroic, tragic, lyric) and techniques (classicism, romanticism, symbolism, myth). *Intended primarily for English majors.*

E321 LITERATURE FOR CHILDREN

A survey of the field of children's literature providing a standard of judgment for evaluation of children's books.

E360 WOMEN AND LITERATURE (Spring)

A study of the role of women in the works of representative male writers, and a study of the works of major women writers; emphasizes nineteenth and twentieth centuries but briefly surveys earlier periods.

E381 LAW AND LITERATURE (Spring)

An exploration in four genres — drama, novel, poetry and essay — of the role of law in determining and fixing punishment for crimes whose moral implications far outreach the law.

E418 MYTHOLOGY

A study of Greek, Norse, Indian, Egyptian, Oriental, African, and North American mythologies in the context of human society as a whole, aimed at defining the "elementary ideas" common to all mankind.

E419 FOLKLORE (Fall)

An introductory study of the major forms of folklore, including the folktale, myth, folksong, riddle, superstition, proverb, and children's folklore. Current trends in folklore will be considered. Readings in English from selected international folk sources. Field trip.

E420 BALLAD AND FOLKSONG (Spring)

A survey of the scholarship in ballad and folksong studies from the 19th century to the present. In-class concerts.

*WRITING, LANGUAGE, AND STUDIO COURSES***E210 WRITING LABORATORY**

Preparation of weekly short papers or scripts, to be read and evaluated in class. These shorter forms of writing will embrace the straight news story, the feature, the editorial, the critical review, and advertising copy. Open to juniors and seniors only.

E322 ADVANCED WRITING I (Fall)

For students interested in doing considerable expository and creative writing. The course also includes related reading in contemporary and classical works.

E323 ADVANCED WRITING II

Prerequisite: E322. Advanced expository and creative writing.

E324 CREATIVE WRITING: POETRY (Fall)

Course work will include writing exercises in various forms and genres, exercises in the development of a personal voice, and a substantial amount of reading poetry and criticism.

E340 APPLIED LINGUISTICS (Spring)

Review of recent developments in linguistic theory and their practical relevance to the field of English.

E429 TECHNICAL REPORT WRITING

An introduction to the writing of scientific and technical reports, to the format and conventions of such reports, the presentation of data in tables and graphs, sources of technical information, and techniques of preparing grant proposals.

E430 EDITORIAL AND PUBLISHING TECHNIQUES (Spring)

A study of the publishing process from manuscript selection and editing through composition, printing, and binding, with particular emphasis on the development of editorial skills and techniques.

E433 STRUCTURE OF THE ENGLISH LANGUAGE

A review of the principles of English grammar, and exposure of prospective teachers to the linguistic problems they will encounter. Designed for English majors who plan to teach English at the elementary or secondary level.

E434 HISTORY OF THE ENGLISH LANGUAGE

A study of the historical development of the English language, with representative readings from various periods.

E490 SPECIAL TOPICS IN ENGLISH (Honors Seminar) (Spring)

Research seminar required of all candidates for honors in English, normally during the second semester of the junior year.

E495 SEMINAR IN SELECTED TOPICS

Open to English majors and minors who have successfully completed E201-E202 and E205-E206. Topics and additional prerequisites will be announced prior to each term's registration. Past seminar topics have included concentrated study of Melville's *Moby Dick*, Milton, T.S. Eliot, Southern American writers, Mythology, Arthurian legend, and Fielding's *Satire*.

SPEECH AND DRAMA COURSES**E103 EFFECTIVE SPEECH**

3 S.H.

A performance course offering training for short talks, demonstrations and discussions.

E104 ORAL INTERPRETATION OF LITERATURE (Fall)

Study of various forms of literature to help students learn meaningful expression of prose, poetry and drama through oral communications. Intensive work included in the basic principles of voice and diction through exercise, tape recordings and assigned reading. Especially recommended for prospective teachers of English.

E215 PRINCIPLES OF GROUP DISCUSSION (Spring)

Study and application of the major forms of group-centered discussion, stressing those types with learning goals and relevant problem-topics. Analysis of verbal and non-verbal interaction is included.

E350 PRINCIPLES OF DRAMATIC PRODUCTION (Fall)

A study of the play in production as living theatre rather than a literature, including a survey of the development and techniques of the theatre in major theatrical periods with a focus on representative plays.

E405 IMAGES: STUDIES IN FICTION AND FILM

An examination of the relationship between literature and film through the use of film adaptations of selected prose. Those elements common to fiction and film as narrative modes that attempt to order experience will be studied.

FOREIGN LANGUAGES AND LITERATURES**Richard W. Newman, Ph.D., Chairman**

Professors Gilkey, Newman, Simeone. Associate Professor Staulo. Assistant Professors Cedargren, Dayag, Girodet, Gonzalez, Mortimer, Ostenson.

Courses in French, German, Italian and Spanish, offered by the Department of Foreign Languages, are designed to meet the needs of two classes of students: (a) those who wish to take foreign languages for general cultural purposes; and (b) those who wish to major or minor in a foreign language. At present, no major or minor is being offered in Italian. The curriculum, both for those preparing to become teachers and for those intending to pursue graduate studies, is designed to give students an active command of their major language and a broad insight into the corresponding literature and culture. There are many promising careers for foreign language majors in education, business, industry and government.

The Department also offers in both theoretical and applied linguistics. Theoretical linguistics, offered as a general cultural elective, is especially recommended to English and foreign language majors. Applied linguistics courses are offered in each of the major languages. For foreign students special courses in English as a Foreign Language are offered. Special courses are offered in the methodology of Foreign Languages in the Elementary School (FLES), Bilingual Education, and English as a Second Language (ESL).

Requirements for Majors

Language majors must complete 33 hours in their major language.

The following courses are required of all majors:

6 sem. hrs. Composition and Conversation (311-312)

3 sem. hrs. Spoken (324)

9 sem. hrs. Three (3) Literature Courses

3 sem. hrs. Civilization Course

3 sem. hrs. Linguistics (LL411 or LL414)

N.B.: Modifications of these requirements may be made for native speakers of a language. Teacher preparation candidates must elect ED336L and should consult the Chairperson of the Secondary Education Department for information concerning requirements for that minor.

Screening Procedure

All departmental candidates for practice-teaching must meet basic minimum standards set forth by the Department in the subject they plan to teach. Only once a year, usually in April, the Department administers a comprehensive Screening and Diagnostic Procedure. Students must successfully complete it no later than the April prior to their practice-teaching semester. A make-up is available, usually in September, exclusively for students whose performance the preceding April was unacceptable. Since the Department will approve no one for practice-teaching who has not successfully completed this procedure, students who have not decided to do practice-teaching, but who think they may wish to do so, are strongly urged to participate. Failure to do so would postpone practice-teaching for a period of at least one year.

Requirements for Minors

a. *Minor in 1 Language* — Minors may be earned in French, German and Spanish by completing 21 sem. hrs. in accordance with a program approved by the Chairperson of the Department of Foreign Languages.

b. *Minor in Foreign Languages* — A minor in Foreign Languages may be earned by completing 4 courses in one language and 3 in another. Elementary (111-112) courses may be counted only for one of the languages.

c. *Contract Minor* — It is possible to combine courses in Foreign Languages with those in other academic disciplines (Art, Music, History, Psychology, Sociology, etc.) into a Contract Minor of at least 18 semester hours. In all cases the particular rationale for choosing the components must be submitted for approval to the Chairpersons or Directors concerned.

BILINGUAL EDUCATION

Concentration in Bilingual Education for Elementary Education Majors

Minor in Bilingual Education for Secondary Education

Candidates wishing to qualify for Massachusetts certification as elementary teachers of Transitional Bilingual Education in one of the current bilingual languages (Armenian, Cantonese, French, Greek, Italian, Portuguese and Spanish) should elect the following *concentration of at least 18 semester hours*:

Candidates wishing to qualify for Massachusetts certification as secondary teachers of Transitional Bilingual Education should elect the following *minor of at least 21 hours*:

Required Courses: 9 semester hours

Methods & Materials in Bilingual Education and FLES (LM410)

Methods & Materials in English as a Second Language (LM420)

Culture in Foreign Language and Bilingual Education (LM430)

Electives: At least 9 semester hours for Elementary Education

At least 12 semester hours for Secondary Education

Appropriate Language Courses

Applied Linguistics (LL414)

Language Field Seminar (LL410)

Candidates for Massachusetts certification are advised that they must pass the Bilingual Teacher Competency Examination. This requires proficiency at the near-native level in both oral and written language, a level which is not usually attained by accumulating college credits. Students whose native or home language is one of the Massachusetts bilingual languages are encouraged to apply for dual certification.

To obtain dual certification, a candidate must fulfill a student-teaching practicum in both a regular classroom and a bilingual classroom. If this is impractical, students may apply directly to the Bureau of Teacher Certification, Placement and Preparation, 31 St. James Ave., Boston, after graduation.

ENGLISH AS A FOREIGN LANGUAGE

LE120-121 ENGLISH AS A FOREIGN LANGUAGE

Designed for non-native speakers of English in order to further their oral and written skills in English.

FRENCH

LE111-112 ELEMENTARY FRENCH

Development of basic skills; aural comprehension, oral and written composition, reading ability. *Language laboratory.*

LE121-122 INTERMEDIATE FRENCH

Grammar review, oral practice, extensive reading, simple written composition. *Language laboratory.*

LE131-132 ADVANCED FRENCH

Continued development of aural and oral skills, written composition. Reading of contemporary literary texts. *Language laboratory.*

LE201 MASTERPIECES OF FRENCH LITERATURE IN TRANSLATION I (Fall)

Highlights of French literature through the eighteenth century including the *Song of Roland*, Villon, Rabelais, Moliere, Corneille, Racine, Voltaire and Rousseau. *Conducted in English.*

LE202 MASTERPIECES OF FRENCH LITERATURE IN TRANSLATION II (Spring)

Highlights of French literature in the nineteenth and twentieth centuries, including Lamartine, Musset, Balzac, Flaubert, Baudelaire, Gide, Sartre, Camus, Becket. *Conducted in English.*

LE311-312 FRENCH COMPOSITION AND CONVERSATION

Training in rapid and idiomatic French speech and writing.

LE324-325 SPOKEN FRENCH

Discussion and oral reports in French on topics of cultural significance and general interest.

LE401 LE CONTE ET LA NOUVELLE

A study of the short story in French literature from the Middle Ages to the present day with special attention to the evolution of this genre and its correlation with the literary movements of the periods included. Lectures, discussions, readings, and reports. *Conducted in French.*

LE402 THE VOICES OF THE FRENCH SPEAKING WORLD (Fall 1977)

Study of the work of representative authors from Canada, Belgium,

French-speaking Africa, Haiti, etc. Lectures, discussions, readings, and reports. *Conducted in French.*

LE403 FRENCH FABLES AND TALES FOR YOUNG AND OLD

Study of literary texts as a basis for developing better command of grammatical patterns, vocabulary building and improved pronunciation. Lectures, discussions, readings, and reports. *Language laboratory. Conducted in French.*

LE404 THE REBEL AND THE REVOLUTIONARY HERO IN FRENCH LITERATURE

The tragic saga of the Rebel who dares challenge the century-old alliance of the secular Trinity-Church-Society-Tradition will be studied throughout French literature from the Middle Ages to the present. Lectures, discussions, readings, and reports. *Conducted in French.*

LE405 SARTRE AND CAMUS (Spring 1978)

An in-depth study of the two best-known representatives of the Existentialist movement in France. The major works of both writers will be read, discussed and analyzed. Lectures, discussions, readings and reports. *Conducted in French.*

LE406 WOMEN IN FRENCH LITERATURE

A study of representative works by women authors or dealing in a special way with women from all ages of French literature, with a particular emphasis on the 20th century. *Conducted in French.*

LE421 FRENCH CIVILIZATION (Spring)

The course includes the necessary background in history, geography, social institutions and culture for the advanced French student. *Conducted in French.*

LE490 SEMINAR IN FRENCH

With consent of the Department Chairman. Special topics of literary research.

GERMAN

LE111-112 ELEMENTARY GERMAN

Development of basic skills; aural comprehension, oral and written composition, reading ability. *Language laboratory.*

LE113-114 SCIENTIFIC GERMAN READING

Training in reading and comprehending scientific texts. Suitable for students majoring in natural and social sciences.

LE121-122 INTERMEDIATE GERMAN

Grammar review, oral practice, extensive reading, simple written composition. *Language laboratory.*

LE131-132 ADVANCED GERMAN

Continued development of aural and oral skills, written composition. Reading of contemporary literary texts. *Language laboratory.*

LE201 MASTERPIECES OF GERMAN LITERATURE IN TRANSLATION I (Fall)

A study of major works of Wofram von Eschenbach, Goethe, Schiller, Kleist, Buechner and Nietzsche. *Conducted in English.*

LE202 MASTERPIECES OF GERMAN LITERATURE IN TRANSLATION II (Spring)

A study of major works by Kafka, Mann, Brecht, Hesse, Grass and Frisch. *Conducted in English.*

LE311-312 GERMAN COMPOSITION AND CONVERSATION

Training in rapid and idiomatic German speech and writing.

LE324 SPOKEN GERMAN

Discussions and oral reports in German on topics of cultural significance and general interest.

LE401 GERMAN LITERATURE OF THE EIGHTEENTH CENTURY

A study of the Classical periods with special emphasis given to novel and drama. Lectures, discussions, readings, and reports. *Conducted in German.*

LG402 GERMAN LITERATURE OF THE NINETEENTH CENTURY

A study of the novel, drama, lyric poetry and novelle of the Romantic and Realist periods. Lectures, discussions, readings, and reports. *Conducted in German.*

LG403 GERMAN LITERATURE OF THE TWENTIETH CENTURY

The course includes a study of the movie, drama, and lyric poetry of the contemporary period. Lectures, discussions, readings, and reports. *Conducted in German.*

LG422 GERMAN CIVILIZATION

A study of German history, geography, social institutions and contemporary German culture. *Conducted in German.*

LG490 SEMINAR IN GERMAN

With consent of Department Chairman. Special topics of literary research.

ITALIAN

LI111-112 ELEMENTARY ITALIAN

Development of basic skills; aural comprehension, oral and written compositions, reading ability. *Language laboratory.*

LI121-122 INTERMEDIATE ITALIAN

Grammar review, oral practice, extensive reading, simple written composition. *Language laboratory.*

LI131-132 ADVANCED ITALIAN

Continued development of aural and oral skills, written composition. Reading of contemporary literary texts. *Language laboratory.*

LI311-312 ITALIAN COMPOSITION AND CONVERSATION

Training in rapid and idiomatic Italian speech and writing.

LINGUISTICS

LL410 LANGUAGE FIELD SEMINAR

Individual project at a social or educational agency serving a linguistic minority. Weekly seminar, supervision at the agency, report written in the foreign language.

LL411 INTRODUCTION TO LINGUISTICS

The nature and origin of language. Language and grammar. The history of linguistics and its new directions. Principles of language analysis: phonetics, phonemics, morphology and syntax.

LL414 APPLIED LINGUISTICS

Linguistic analysis of the phonology, morphology, and syntax of English and a systematic comparison of its structures with French, German, and Spanish.

METHODOLOGY IN SECOND LANGUAGE

LM410 METHODS AND MATERIALS FOR BILINGUAL EDUCATION AND FLES

Introduction to the teaching of Foreign Languages in the Elementary School and the teaching of subject matter to students who speak a language other than English.

LM420 METHODS AND MATERIALS IN ENGLISH AS A SECOND LANGUAGE

This course gives prospective teachers in urban centers the practice of teaching English to non-English speakers. A brief study of second language learning and realistic observation and participation in community classrooms.

LM430 CULTURE IN FOREIGN LANGUAGE AND BILINGUAL EDUCATION

A study of the acculturation process and an analysis of the differences between American culture and the cultures represented in foreign language and bilingual programs with suggested teaching procedures.

SPANISH

LS111-112 ELEMENTARY SPANISH

Elementary conversational language practice, basic grammar patterns with development of basic skills. The student is also introduced to the Hispanic way of life through class discussions. *Language laboratory.*

LS121-122 INTERMEDIATE SPANISH

To facilitate communication within the urban setting. Oral practice, review of Spanish grammar. Lively, contemporary short story readings and occasional field trips. *Language laboratory.*

LS131-132 ADVANCED SPANISH

Continued development of aural and oral skills, written composition. Reading of contemporary literary texts. *Language laboratory.*

LS201 MASTERPIECES OF SPANISH LITERATURE IN TRANSLATION I (Fall)

Courage passion, ideals, intrigue in the literary portraits of El Cid, La Celestina, Lazarillo, Don Quijote, and Don Juan. *Conducted in English.*

LS202 MASTERPIECES OF SPANISH LITERATURE IN TRANSLATION II (Spring)

The anguish of nineteenth and twentieth century Spain portrayed by such authors as Becquer, Galdos, Unamuno, Valle-Inclan, Garcia Lorca, Juan Ramon Jimenez, Cela, and Ramon Sender. *Conducted in English.*

LS311-312 SPANISH COMPOSITION AND CONVERSATION

Training in rapid and idiomatic Spanish speech and writing.

LS324-325 SPOKEN SPANISH

Discussion and oral reports in Spanish on topics of cultural significance and general interest.

LS401 THE DON JUAN TRADITION IN HISPANIC LITERATURE

A study of the various works exemplifying the Don Juan theme from Tirso de Molina to the present. Lectures, discussions, readings, and reports. *Conducted in Spanish.*

LS402 PROSE WRITERS OF SPANISH LITERATURE (Spring 1978)

A study of the major prose writers in Spanish literature from the Middle Ages to our day. Lectures, discussions, readings, and reports. *Conducted in Spanish.*

LS403 THE LYRIC TRADITION IN HISPANIC LITERATURE (Fall 1977)

A panoramic view of the evolution of the lyric tradition in Spain and Spanish America. Lectures, discussions, readings, and reports. *Conducted in Spanish.*

LS404 CONTEMPORARY HISPANIC THEATER

A reading of selected works that illustrate the latest trends in Hispanic theater. Lectures, discussions, readings and reports. *Conducted in Spanish.*

LS405 SPANISH AMERICAN LITERATURE (Fall 1978)

Representative readings from the colonial period to the present. Lectures, discussions, readings, and reports. *Conducted in Spanish.*

LS411 ADVANCED SPANISH COMPOSITION AND STYLISTICS (Spring)

Introduction to the problems of style and a study of selected grammatical topics. Translations to and from Spanish.

LS421 CARIBBEAN CULTURE

A study of the history, geography, social institutions and the culture of the Spanish-speaking people of the Caribbean and the French-speaking people of Haiti with particular attention to their place in American society. *Conducted in French and Spanish.*

LS422 HISPANIC CIVILIZATION

A study of the history, geography, social institutions and contemporary Hispanic culture. *Conducted in Spanish.*

LS423 SPANISH AMERICAN CIVILIZATION (Spring 1978)

A study of the history, geography, social institutions and contemporary culture of the Spanish American republics. *Conducted in Spanish.*

LS430 SPANISH FOR THE BILINGUAL TEACHER

A course for advanced students of Spanish dealing with non-literary language, geography, history, economics, science, mathematics and especially the terminology of common elementary and secondary school subjects.

LS490 SEMINAR IN SPANISH

With consent of Department Chairman. Special topics of literary research.

INDIVIDUALIZED INSTRUCTION IN FOREIGN LANGUAGES NOT OFFERED IN REGULAR CLASSES

A self-instructional program in some major world languages not offered in regular classes is available at the Elementary, Intermediate and Advanced levels. The work is individualized with programmed materials, cassette tape recordings and facilitators who are native speakers of the various target languages. Students make contracts binding them to finish a certain agreed upon amount of work and to pass the tests based on the lessons.

The following descriptions apply to ALL languages:

111-112 ELEMENTARY

Development of basic skills; aural comprehension; oral and written composition.

121-122 INTERMEDIATE

Grammar review, oral practice, reading and composition.

131-132 ADVANCED

Continued development of aural and oral skills. Written composition. Development of reading skills.

LA111-112, LA121-122, LA131-132

Elementary, Intermediate, Advanced Arabic

LB111-112, LB121-122, LB131-132

Elementary, Intermediate, Advanced Armenian

LC111-112, LC121-122, LC131-132

Elementary, Intermediate, Advanced Chinese

LD111-112, LD121-122, LD131-132

Elementary, Intermediate, Advanced Greek

LH111-112, LH121-122, LH131-132

Elementary, Intermediate, Advanced Hebrew

LJ111-112, LJ121-122, LJ131-132

Elementary, Intermediate, Advanced Japanese

LP111-112, LP121-122, LP131-132

Elementary, Intermediate, Advanced Portuguese

LR111-112, LR121-122, LR131-132

Elementary, Intermediate, Advanced Russian

HEALTH PROFESSIONS

Rita McCauley, Ph.D., Director

Medical Technology (Marie Tierney, Director); Medical Technology - Nuclear (Henry Mariani, Co-Director); Nursing (Anne Kibrick, Ed.D., Director)

The Health Professions programs are offered at the upper division level and are built on a two-year sequence of prerequisite behavioral and natural sciences. Students must achieve a minimum grade of 2.5 in the prerequisite courses and a minimum cumulative average of 2.0 in order to be considered for these programs. Satisfactory completion of the prerequisite courses does not guarantee admission into the Health Professions programs. The programs are highly competitive and enrollment is limited.

Science courses taken prior to five years of the admission date will not be accepted for credit; however, students may elect to take approved challenge examinations for credit. The General Education requirements of Boston State College must be met before graduation.

MEDICAL TECHNOLOGY

The curriculum is designed to fulfill the requirements stated by the Board of Registry of the American Society of Clinical Pathologists. The academic requirements include 94-96 semester hours of education at Boston State College. These three years plus a year of clinical education in a school of medical technology approved by the Council on Medical Education of the American Medical Association are conducted so that the baccalaureate degree requirements for a BSMT degree from Boston State College are fulfilled.

The specific courses that are required include a minimum of 16 semester hours in chemistry and 16 semester hours in biology plus one semester of college level mathematics or its equivalent.

When the student has fulfilled these requirements plus those required by the college for the granting of the degree, application is made to an

approved hospital school for a calendar year of clinical training. The college grants 30-32 semester hours credit for this clinical internship. Selection of candidates for each hospital school is made by the educational coordinator at the hospital after a personal interview and transcript evaluation of the student's academic record.

Upon completion of all these requirements, application may be made to the Board of Registry to take a qualifying examination to become a registered medical technologist.

MT103-104 MEDICAL TECHNOLOGY ORIENTATION SEMINAR I, II

Required of all majors in medical technology. Designed to introduce the student to an understanding of the professional objectives and his role in medical technology. Discussion, hospital experiences, selected readings.

MT 493-494; NM 493-494

CLINICAL INTERNSHIP I, II

30-32 S.H.

Required of all medical technology majors. Admission only with the approval of the Educational Coordinator of an approved hospital school of medical technology and college director of the program. This training is under the supervision of a qualified staff in an accredited school of medical technology.

Curriculum for the Degree of Bachelor of Science in Medical Technology

	Semester I	Credit Hours
E101	English Composition	3
CH101	Principles of Chemistry	4
BI107	Principles of Botany	4
M109	Mathematical Analysis I	3
	Semester II	
E102	English Composition	3
CH102	Principles of Chemistry	4
BI108	Principles of Zoology	4
...	Humanities	3
	Semester III	
E103	Effective Speech	2
CH205	Quantitative Chemistry	4
BI303	Histology & Hist. Techniques	4
BI213	Anatomy & Physiology I	4
...	Social Science	3
	Semester IV	
CH207	Organic Chemistry	4
BI214	Anatomy & Physiology II	4
...	Social Science	3
...	Social Science	3
...	Humanities	3
	Semester V	
BI312	Medical Microbiology	4
...	Humanities	3
...	Humanities	3
...	Social Science	3
...	(Elective)	3-4
	Semester VI	
P101	College Physics I	4
...	Humanities	3
...	Humanities	3
...	Social Science	3
...	(Elective)	3-4

Suggested Electives

Electives may be selected from the offering in any department. The ones listed below should be considered.

P102	College Physics II	4
M120	Basic Statistics	3
CH305	Biological Chemistry	4
BI401	Genetics	4
BI403	Human Genetics	3
BI311	Hematology	3
BI410	Parasitology	4
CH221	Instrumentation in Clinical Chemistry	3

Area of Concentration — Medical Technology — Nuclear

An area of concentration is offered in medical technology — nuclear. Three years are spent at Boston State College in courses which give the student the theoretical background needed for the fourth, clinical year, and to meet the requirements of the baccalaureate degree.

The school is affiliated with a number of local hospitals which have American Medical Association and American Registry of Radiologic Technologists approval. At the beginning of the sixth semester the student will apply through the program chairperson for hospital affiliation. A 2.0 in all science courses will be minimal for consideration for recommendation for appointment to one of the hospital positions allocated to the department.

When the required fourth year is satisfactorily completed (evaluation will be made by the hospital staff and the director) the student will be eligible to receive the B.S. degree with a major in medical technology from Boston State College. Graduates are then eligible for examination for certification by the Registry.

Freshman applying for this program must be interviewed by the director after official admission to the college.

NT209-210 ORIENTATION SEMINAR IN NUCLEAR MEDICAL TECHNOLOGY

0 S.H.

Required of all majors in nuclear medical technology. Designed to introduce the student to an understanding of the professional objectives of, and his role in, nuclear medical technology. Discussions and lectures by visiting specialists, hospital visits, and selected readings make up the course.

HISTORY

John C. Weston, Ph.D., Chairman

Professors Bernard, Burke, Grozier, Hull, Masse, Moon, Regan, Scanlon, Weston. Associate Professors Anciello, Andreini, Beeke-Levy, Bowles, Dunbar, Foley, Fox, Hegarty, Ladd, Power, Prentiss, Quitt, Shively, Sullivan, Rudolph, Thorne, Tinkham. Assistant Professors Bartson, Dalton, Devenaux, Doon, Hafkin, McMullin, Reynolds, Smith.

The Department of History offers programs for a major concentration for the B.A. degree in history. History majors are required to take H101 and H102 or one of its equivalents: H103-104, H105-106, H107-108, H109-110, H111-112. However, no more than one six semester hour course sequence on the 100 level may be taken for credit as a history major or minor. A history major must also take H 201-202 and a minimum of 24 elective hours in history.

History minors are required to take H101-102 (or its 100 level equivalent), H201-202, and 9 elective hours in history.

The Department of History participates in the Honors Program, and recommends to those properly certified, membership in the national honor society of Phi Alpha Theta-Mu Iota Chapter.

Courses on the 100 and 200 level are open to all undergraduates. Courses on the 300 level are open to sophomores, juniors and seniors. Courses on the 400 level are open only to juniors, seniors and graduate students. Graduate students may take other history department courses with permission of the history department chairman.

All courses meet every semester unless otherwise indicated.

H101 HISTORY OF WESTERN CIVILIZATION I

A survey of the development of Europe from the ancient civilizations to 1715. Emphasis upon social and political institutions.

H102 HISTORY OF WESTERN CIVILIZATION II

A survey of the development of Europe from 1715 to the present with an emphasis upon social and political institutions.

H103 HISTORY OF IDEAS I

An analysis of several major works which helped shape the mind of the West before 1550. Each instructor's course outline and reading list will be available in the history department before registration.

H104 HISTORY OF IDEAS II

An analysis of several major works which have helped shape the mind of the West since 1550. Each instructor's course outline and reading list will be available in the history department before registration.

H105 WORLD HISTORY I

Selected topics in the early history of Africa, Asia, and Europe. Each instructor's course outline and reading list will be available in the history department before registration.

H106 WORLD HISTORY II

Selected topics in the history of modern Africa, Asia, and Europe. Each instructor's course outline and reading list will be available in the history department before registration.

H107 HISTORY OF WESTERN CULTURE I (ANCIENT CIVILIZATION TO 1715)

A survey of European history with an emphasis on cultural factors with an extensive use of films and recordings.

H108 HISTORY OF WESTERN CULTURE (1715 TO PRESENT)

Continuation of H107.

H109 GREAT PERSONALITIES IN WESTERN HISTORY TO 1750

A biographical survey of selected individuals whose lives had a significant impact on the history of Western Civilization.

H110 GREAT PERSONALITIES IN WESTERN HISTORY SINCE 1750

Continuation of H109.

H111 GREAT CITIES OF WESTERN CIVILIZATION I

A history of urbanization and the ways in which cities affected the development of institutions in western civilization to the 18th century.

H112 GREAT CITIES OF WESTERN CIVILIZATION II (1750 TO PRESENT)

Continuation of H111.

H201 AMERICAN HISTORY TO 1865

This course is a survey of American History from the colonial period to 1865, and an analysis of American political customs and institutions with emphasis on the Federal and Massachusetts Constitution.

H202 AMERICAN HISTORY FROM 1865

A survey of political, economic, and social changes from 1865 to the present and the changing role of the United States in world affairs.

H301 SURVEY OF ANCIENT CIVILIZATION TO 600 B.C.

Civilization's birth and progress in Mesopotamia, Egypt, Canaan, Minoan Crete, Homeric Greece, emphasizing the role of cities and social and intellectual life with extensive slides stressing art and archeological digs. Semester to be offered will be announced.

H303 HISTORY OF GREECE (Fall)

This course covers the history of Greece from the twelfth century B.C. to the Roman occupation.

H304 SURVEY OF ROMAN CIVILIZATION (Spring)

Roman social, intellectual life in the context of historical events from the city's origins to the Late Empire. Extensive slides emphasizing art, architecture, archeological field work.

H305 THE EARLY MIDDLE AGES (Fall)

A study of the Mediterranean world and northern Europe, focusing on the problem of transition from Rome to the Middle Ages and the successors to Rome; the Byzantine, Moslem, and Carolingian Empires; 200 A.D.-1000 A.D.

H306 THE HIGH MIDDLE AGES (Spring)

A study of Western Europe, c. 1000-1450, focusing on feudal society; the medieval political, economic, and cultural Renaissance; and the problem of the decline of the Middle Ages.

H310 THE RENAISSANCE AND THE REFORMATION (Spring)

The political, literary, and artistic phases of the Renaissance and an examination of the religious aspects of the Reformation.

H311 THE SEVENTEENTH CENTURY (Fall)

Selected topics concerned with the question of the seventeenth century

as the first modern era. Topics include: Absolutism in France vs. Constitutionalism in England, the Scientific Revolution and its social and intellectual consequences, the emergence of the bourgeoisie.

H312 THE EIGHTEENTH CENTURY (Spring)

This course is concerned with the eighteenth century's attempt to understand man and his struggle to achieve happiness. Emphasis is placed on ideas and the historical events of the times related to them.

H315 THE HAPSBURG MONARCH (1815-1918) (Fall)

A course on a principle issue of nineteenth century European history. An interpretation of the central problem of Austria-Hungary: the maintenance of the dynastic/state concept as the nexus of the European state system on the eve of the First World War.

H316 HISTORY OF EASTERN EUROPE SINCE 1918 (Formerly H321) (Spring)

This course will concentrate on the political, social, and economic developments in Eastern Europe in the interwar periods, and the rise of satellite communism.

H319 EUROPEAN INTELLECTUAL HISTORY: 1600-1815 (Fall)

A study of the scientific, political, and ideological beliefs of the seventeenth and eighteenth centuries, with particular consideration of the seminal minds and their ideas.

H320 EUROPEAN INTELLECTUAL HISTORY SINCE 1815 (Spring)

Among the topics evaluated are romanticism, conservatism, liberal democracy, socialism, Marxism, Darwinism, irrationalism, Freudianism, existentialism, totalitarianism, and the dilemmas of contemporary Europe.

H323 EUROPE IN THE NINETEENTH CENTURY (Fall)

An introduction to the economic, social, and political forces vital to this century, with a study of the national histories prominent at that time.

H324 EUROPE IN THE TWENTIETH CENTURY (Spring)

An analysis of the political, social, economic and cultural aspects of twentieth century Europe.

H325 SEAPOWERS IN WORLD HISTORY (Fall)

Seapower in connection with Maritime States and peoples is traced as a thread in world history. The course will include an analysis of the various components of seapower.

H326 WOMEN IN WORLD HISTORY (Spring)

Development of role of women in pre-historic societies, women's role and images in monotheistic religions, comparative roles of women in western and non-western societies, with particular emphasis on Africa, Latin America, China. Women in revolutionary societies.

H327 MODERN EUROPEAN IMPERIALISM: 1850-1950 (Fall)

The motives and methods of European imperialism, and selected resistance movements in Africa and India.

H328 WORLD WAR II (Fall)

A study in the nature of total war concentrating on the conflict itself. Having destroyed the old European balance, a global balance of power was created transforming the world politically, economically, socially, and scientifically.

H329 HISTORY OF CONTEMPORARY EUROPE SINCE 1939 (Spring)

The current national developments in Western Europe will be studied after a brief analysis of World War II. Special attention to be given to the social, economic, and cultural trends of recent origin. Semester to be offered will be announced.

H330 EUROPEAN HISTORIOGRAPHY (Fall)

A study of ancient and modern European historians and analysis of historical research methods.

H331 HISTORY OF ENGLAND TO 1689 (Fall)

The Anglo-Saxon period, the Anglo-Norman fusion, the development of law and parliament, the rise of the Tudors, seventeenth century monarchy and revolutions.

H332 HISTORY OF ENGLAND FROM 1689 (Spring)

The late Stuart and Georgian politics; the industrial revolution; the rise of British empire; nineteenth century conservative and liberal politics and ideas; social, imperial, and intellectual change to 1939.

H333 MODERN BRITAIN (Fall)

Social and political crisis before 1914, the Home Front in war, post-war experiments in Labour and Conservative politics, the depression, Chamberlain and Hitler, World War II.

H334 HISTORY OF MODERN ITALY (Spring)

A course emphasizing Italian Nationalism, unification, growth of democracy, fascism, and current social and political developments.

H335 HISTORY OF MODERN GERMANY (Fall)

An in-depth study of major events and the developments in Germany from 1815 to present.

H336 THE FRENCH REVOLUTION AND NAPOLEON (Fall)

Analysis of the principles, causes, and phases of the French Revolution and the era of the Directory and Napoleonic rule.

H337 FRANCE SINCE 1815 (Spring)

France from the post-Napoleonic period to 1940, with emphasis upon the various regimes of the nineteenth century and the rise and fall of the Third Republic.

H338 HISTORY OF MODERN IRELAND I (1640-1891) (Fall)

Political, social, religious and economic developments in Ireland from the Cromwellian era to the death of Charles Stewart Parnell.

H339 HISTORY OF MODERN IRELAND II (1891-1950) (Spring)

An analysis of the political, social, economic and religious developments in Ireland from the death of Parnell to the era of De Valera. Special emphasis on the evaluation of modern Ulster.

H340 AMERICAN COLONIAL HISTORY

The interrelationships between Europe and British North America from discovery to 1763, and the development of the early American economy, society, and institutions.

H341 AMERICAN REVOLUTION AND CONSTITUTION

Analyzing the break-up of the British colonial system, this course describes the Revolution and the creation of a new nation and federal government, 1763-1790.

H342 THE FEDERALIST ERA: 1790-1815

Centers about the formative years under the United States Constitutions with emphasis on policies encouraged by Hamilton and the early political parties of the Federalists and the Republicans.

H343 NATIONALISM AND SECTIONALISM IN AMERICA: 1816-1850 (Fall)

A study of the significant trends facing young America from the War of 1812 to the eve of the Civil War, with emphasis on the domestic scene.

H344 CIVIL WAR AND RECONSTRUCTION: 1850-1877 (Spring)

The great upheaval in mid-century America: causes, the agony of war, and the legacy of division between sections and races.

H345 HISTORY OF THE OLD SOUTH (Fall)

Analysis of the characteristics of a distinctive southern society, its politics, economy, and culture, from settlement to secession.

H346 HISTORY OF THE NEW SOUTH (Spring)

Covers the nature of southern society, problems, behavior; and its history from Reconstruction to the present, stressing southern alienation from and re-integration into American society.

H348 THE WESTWARD MOVEMENT: 1763-1890 (Spring)

The growth and development of the West, the treatment of American Indians, and the influence of the frontier on the political, cultural, and economic life.

H349 AMERICAN HISTORIOGRAPHY (Spring)

An analysis of historical research and methodology and a study of past and present American historians.

H351 POPULISM AND THE PROGRESSIVE ERA (Spring)
An intensive probe into the development of the American Commonwealth from 1877 to 1920.

H354 UNITED STATES IN THE TWENTIETH CENTURY
A description and analysis of major events and forces in American history from the Progressive Era through World War II. Special emphasis on social and political themes and on recent historical interpretations.

H359 DIPLOMATIC HISTORY OF THE UNITED STATES TO 1898 (Fall)
Analyzes the main forces that have shaped the early development of American foreign policy from 1777 to 1898.

H360 DIPLOMATIC HISTORY OF THE UNITED STATES SINCE 1898 (Spring)
A study of American foreign relations during the twentieth century. The period 1898-1945 will be covered.

H361 BLACK AMERICAN HISTORY TO 1896 (Fall)
The role of Afro-Americans in the development of American life from 1619 to 1896.

H362 BLACK AMERICAN HISTORY SINCE 1896 (Spring)
This course stresses: legal separation, B.T. Washington vs. W.E.B. DuBois, organized protests, desegregation, the civil rights movement.

H363 SOCIAL HISTORY OF WOMEN IN AMERICA: COLONIAL TIMES TO THE PRESENT (Fall)
A study of the role of women in America from the seventeenth through the twentieth centuries, with particular emphasis on the social and intellectual roots of women's support for social reform movements, including efforts to improve the status of women in America.

H365 SOCIAL AND CULTURAL HISTORY OF THE UNITED STATES TO 1870 (Fall)
The development of American thought and society with emphasis on the impact of Puritanism, Individualism, and Transcendentalism on the American scene.

H366 SOCIAL AND CULTURAL HISTORY OF THE UNITED STATES SINCE 1870 (Spring)
A study of transition of the United States to an urban, industrialized society, and the effect on the social, cultural, and intellectual life of the people.

H367 HISTORY OF THE AMERICAN CITY
Historical study of American cities since colonial times with emphasis on current problems. Consideration of the connection of cities with industrialization, technology, education, population change, community planning, culture, transportation, and government.

H368 HISTORY OF AMERICAN LABOR
A historical survey of labor and its place in American life from colonial times to the present. Major emphasis on the founding, history, development and place of labor unions in American history.

H369 THE FAMILY IN THE EARLY MODERN ERA (Spring)
The course will survey the changing structure, function and significance of the family from the middle ages to the twentieth century. It will focus primarily on the European and American colonial families of the early modern era.

H371 HISTORY OF LATIN AMERICA TO 1825 (Fall)
Main focus on the aboriginal American and Spanish background, the conquest and development of colonial Spanish America. Emphasis on social and intellectual growth.

H372 HISTORY OF LATIN AMERICA SINCE 1825 (Spring)
A study of emerging nations of Latin America after independence: the growth of dictatorships, of Indianism, the social and intellectual forces shaping present-day Latin America, especially Argentina, Brazil, Mexico and Peru.

H375 HISTORY OF CANADA TO 1867 (Fall)
This course will cover the French heritage, the struggle with England, British rule, problems during the American Revolution, Relationships with the United States, and the struggle for responsible government.

H376 HISTORY OF CANADA FROM 1867 (Spring)
Particular emphasis will be placed on relations with the United States, the railroads and western land problems. The expansion of Canada as a nation will be dealt with from the Age of Laurier through the Second World War and present day.

H381 HISTORY OF AFRICA TO 1850 (Fall)
Origin of man in East Africa. Development of African civilization, with emphasis on the empires of Egypt, Axum, Kush, Ghana, Mali, Songhai, Lunda-Luba, and Zimbabwe. African trade contracts with Asia, Europe, North America.

H382 AFRICA SINCE 1850 (Spring)
A continental survey of Africa from 1850 to 1938. African states before European takeover. European expansion and conquest. The colonial period, African reactions to colonialism.

H384 HISTORY OF THE MODERN NEAR EAST (Spring)
A survey from 1815 to the present, traces the decline of the Ottoman Empire, rises of Nationalism and the Arab-Israeli conflict.

H391 HISTORY OF EARLY RUSSIA (Fall)
Russian history from the Kievan and Mongolian periods through the Appanage Age and the rise of Imperial Czarism.

H392 HISTORY OF MODERN RUSSIA (Spring)
This survey traces the rise and decline of monarchy since Peter the Great, Russia's external expansion and the revolutions of 1905 and 1917.

H393 HISTORY OF THE SOVIET UNION SINCE 1917 (Fall)
After brief treatment of the final phase of the Imperial Regime and the Provisional Government, the course will survey the political, social, economic, and cultural history of the U.S.S.R. from 1917 to the present.

H395 EARLY EAST ASIAN CIVILIZATION (Fall)
A study of the social, cultural, political and economic institutions of traditional China and Japan and concurrent developments in Korea and Southeast Asia.

H396 CONTEMPORARY EAST ASIAN CIVILIZATION (Spring)
This course will focus on the transformation of China and Japan since 1800, and its impact upon Korea and Southeast Asia.

H411 SEMINAR IN COMPARATIVE HISTORY OF THE UNITED STATES AND LATIN AMERICA (Spring)
A study of selected sources and topics in the social, cultural and intellectual history of the United States and Latin America. Discussion meetings, readings and guided independent research.

H441 REVOLUTIONARY BOSTON, 1763-1783
A Bicentennial history of the Commonwealth's heroic age, from conflict within the British Empire to military and political leadership in the struggle for American Independence.

H490 SEMINAR IN SELECTED TOPICS
Prerequisite: Consent of department chairman. This course emphasizes historiography and the techniques of research and writing in history in preparation for the honors thesis.

MANAGEMENT

James M. Kemp, Ed.D., Director
Associate Professor Sturmer.

The Bachelor of Science in Management is an upper division program in which the major or minor is completed during the junior and senior years, preceded by the completion of general education and prerequisite requirements in the lower division (freshman-sophomore) years.

Its objectives are to prepare students for management careers in private business and industry, in local, state or federal government, in entrepreneurial enterprises, or for graduate studies in management and related disciplines. It provides a broad view of the management profession and of the impact of other disciplines on this field through combining general education with courses in management and related disciplines. Students who elect this program as their major are encouraged

to complete a minor in a related discipline, or an interdepartmental contract minor supporting their specific career objectives or graduate study plans.

This program also encourages transfers from community colleges and other accredited institutions.

Majors or minors in the management program must register in the Management Program Office (Room 206 Administration Building) to assure the formulation of a program meeting the student's career objectives.

The major in management requires the completion of 36 semester hours of academic work. M120 Basic Statistics or its equivalent is strongly recommended prior to enrollment in the required core courses.

A minor in management requires the completion of MG301, EC102, EC103, M115, MG306 and two additional courses selected from the core courses or approved related courses for a total of 21 semester hours. Students who have successfully completed a major in business administration or management at a community college are granted an automatic minor in these fields. A contract minor composed of a series of related interdepartmental courses may also be negotiated with major department advisors.

Required Core Courses (30 Semester Hours)

*EC102 Principles of Economics II
MG301 Theory and Principles of Management
MG306 Business Law
M115 Computer Sciences and Information Systems
EC103 Financial Accounting and Control I
EC104 Financial Accounting and Control II
*PY230 Organizational Psychology
*EC308 Corporate Finance
*EC312 Marketing
MG410 Operations Management

**The prerequisites for these courses can be met by a careful selection of general education requirements.*

Related Courses (6 Semester Hours)

Selected from designated courses above the introductory level in economics, management, mathematics, political science, psychology, and sociology and other related fields.

MG301 THEORY AND PRINCIPLES OF MANAGEMENT

The basic management functions of planning, organizing, directing, controlling are examined from theoretical and applied perspectives. Alternative management styles are reviewed for their effects on motivation, morale, and decision-making processes in a variety of business and industrial organizations.

MG306 BUSINESS LAW

This course examines the commercial legal environment. Study of the law of contracts, real property, corporations, agency, sales, personal property and partnership.

MG398 PRINCIPLES AND PRACTICES IN PERSONNEL ADMINISTRATION

Prerequisites: MG301 and PY230 and a minimum of 60 semester hours completed toward a baccalaureate degree. A survey of current and emerging principles and practices in personnel administration, e.g.: recruiting and employment, classification, training and development, promotion, termination, retirement, wage and salary, benefits, safety and security; including the impact of pertinent federal and state laws and regulatory agencies. Case studies from representative business, industrial, government and social agencies will be utilized.

MG401 COLLECTIVE BARGAINING

Collective bargaining processes and the nature of the union-management relationship in private sectors of the economy are reviewed. Bargaining, negotiation, and settlement issues and strategies are examined. Comparisons will be made to public sector bargaining.

MG410 OPERATIONS MANAGEMENT

Prerequisites: Completion of 21 semester hours of Management major courses and 90 semester hours toward the baccalaureate degree. The application of management principles and practices to operating systems for products or services including planning and control, plant design, capacity analysis, scheduling, inventory, quality control, safety and personnel administration.

MG420 SMALL BUSINESS MANAGEMENT

Prerequisites: Completion of 21 semester hours of the management major and 90 semester hours toward the baccalaureate degree. The application of management principles and practices to the development and management of small business enterprises in both goods producing and service industries, including legal, financial, marketing, and tax considerations.

MG490 SPECIAL TOPICS — MANAGEMENT

Prerequisites: Completion of 21 semester hours from required management courses, and 90 semester hours toward the baccalaureate degree. Selected topics from contemporary management problems, practices, issues or new developments in profit and non-profit organizations.

MG492 INDEPENDENT STUDY/RESEARCH

Prerequisites: Completion of a minimum of 21 semester hours from required management major courses, and 90 semester hours toward the baccalaureate degree. Open only to seniors, by permission and agreement of the concerned faculty members and program director. Independent study or research on a topic determined by the student in consultation with the supervising faculty member or program director.

MG494 SUPERVISED INTERNSHIP

Prerequisites: Completion of a minimum of 21 semester hours from required management major courses, and 90 semester hours toward the baccalaureate degree. Open only to seniors, by permission of the management program advisor. This course requires full-time employment (minimum of 30 hours per week) in a management-trainee capacity for 8 weeks earning 3 semester hours credit; 16 weeks earning 6 semester hours credit. Placement will be made in business, industrial, governmental or educational organizations willing to provide a variety of managerial experiences and supervision by a practicing manager. Attendance and participation in bi-weekly seminars, and a summary report of the work experience are required.

MATHEMATICS

Paul A. Klein, Ph.D., Chairman

Professors Davidson, Freyre, Kass, Klein, Paquette. Associate Professors Bennett, Donovan, Herda, Kime, Witthoft. Assistant Professors Ault, Callahan, Greeley, Jaffe, McCarthy, Mueller, Nee, Prendergast. Stick, Truesdell. Instructor Wallace.

Mathematics and science, which are the basis of technology, have a claim on the attention of every citizen. Mathematics, especially, emphasizes the search for critical standards, the effort to distinguish what is enduring from what is transitory, and the patient construction of theory. Thus, in many areas, to think at all is to think like a mathematician.

To help our students develop this capacity and to prepare them for their career goals the mathematics department offers courses in pure and applied mathematics, mathematics education, and computer science. Its programs lead to the B.S. degree.

Major Requirements

A minimum of 36 hours to be distributed as follows:

- (a) all 21 hours in Group I;
- (b) 6 hours in Group II, consisting of M306 or M308, and one of M411, M415, and M416;
- (c) a minimum of 9 hours in Group III, including at least one 400 level course not chosen in (b).

Recommendations

All mathematics majors must consult with the Department Chairman in order that an advisor may be assigned to help plan a program of study. M203 and M204 should be taken in the sophomore year.

All mathematics majors are urged to take a course in computer science, as well as Physics 101 and 102.

If you have free electives and intend to continue the study of mathematics at the graduate level, it would be to your advantage to elect as many as possible of the following Group III courses: M203, M407, M409, M410, M411, M412, M415, and M416.

Students who plan to enter secondary school teaching should choose electives from among M203, M252, M301, M335, M400, M408, M410 and M416.

Students interested in the fields of applied mathematics should choose electives from among M203, M250⁺, M252⁺, M400, M402, M409, M413, M416, M425 and M441.

Students who plan a specialty in computer science should choose electives from among M250⁺, M252⁺, M253⁺, M352, M400, M402, M403, M409, M416 and M425.

Prospective candidates for the life insurance industry should choose courses from among M253, M302, M303, M400, M402 and M409.

Minor Requirements

A minimum of 21 hours to be selected from Group I through Group IV.

An elementary education major who wishes to minor in mathematics is advised to choose courses from among M103, M109, M110, M120, M220 or M224, M225, M226, M227, M250⁺, M252⁺ and M301.

Mathematics Course Groupings

*Group I: 104, 106, 204, 205, 206, 314

*Group II: 306, 308, 411, 415, 416

Group III: 105, 203, 211, 250⁺, 252⁺, 253⁺, 301, 302, 303, 306, 308, 309, 335, 340, 352, 400, 402, 403, 407, 408, 409, 410, 411, 412, 413, 415, 416, 425, 440, 441, 490

Group IV: 102, 103, 109, 110, 120, 450, 452

Group V: 224, 225, 226, 227

Group VI: 100, 100A, 101, 115, 150, 220, 316, 326, 353, 355, 356, 455

†Only one may be taken toward a major or minor in mathematics

**Students may fulfill group requirements according to the catalog in effect at the time of their entrance or any succeeding catalog.*

Computer Science Minor

A minimum of 21 hours to be distributed as follows:

1. A student must complete M355 Assembly Language Programming and at least one of M352 Advanced FORTRAN or M353 Advanced COBOL

2. **M115 Computer Science and Information Systems

**M150 Fundamental Computer Concepts

M250 Computer Programming with BASIC

M252 FORTRAN Programming

M253 COBOL Programming

M356 Quantitative Approaches to Decision Making

M425 Numerical Analysis

M450 Non-number processing

M452 Stochastic Models

M455 Advanced Assembly Language

***Only one can be taken for credit toward Computer Science Minor.*

The Honors Program

Students who have shown a marked aptitude in mathematics will be invited to join the Honors Program. To graduate with honors in mathematics, students must do independent work in M490 under the supervision of a department member.

All courses meet every semester unless otherwise indicated.

‡Not open to mathematics majors

‡M100 BASIC MATHEMATICS

Arithmetic and algebra for students not ready for college mathematics. Admission by recommendation of an advisor.

‡M100A ELEMENTARY ALGEBRA

A review of beginning algebra covering polynomials, and including algebraic and graphic solutions of linear and quadratic equations.

‡M101 MATHEMATICAL PERSPECTIVES I

The nature of mathematics in the modern world is shown by exploring the process of mathematical thinking and some of its results and applications.

‡M102 MATHEMATICAL PERSPECTIVES II

Continuation of M101.

‡M103 COLLEGE ALGEBRA

Topics include inequalities, functions, exponentials and logarithms.

M104 PRECALCULUS MATHEMATICS

Algebraic manipulation, functional concepts, trigonometric and other transcendental functions.

M105 ANALYTIC GEOMETRY

Geometry of the plane and 3-space in coordinate and vector style, conic sections, parametric equations, and curve tracing.

M106 CALCULUS

4 S.H.

Prerequisite: M104. Limits, continuity, differentiation, and applications of the derivative.

‡M109 MATHEMATICAL ANALYSIS I

Introduction to the basic ideas of calculus and probability with emphasis on understanding mathematical concepts and applications.

‡M110 MATHEMATICAL ANALYSIS II

Prerequisite: M109. The definite integral, fundamental theorem of calculus, methods of integration, applications, continuous and discrete probability.

‡M115 COMPUTER SCIENCE AND INFORMATION SYSTEMS

Introduction to the use of problem-oriented languages in order to prepare computer programs. Relevancy of computer information systems discussed.

‡M120 BASIC STATISTICS

Introduction to descriptive statistics including probability, random variables, expectation, sampling and distributions.

‡M150 FUNDAMENTAL COMPUTER CONCEPTS

Introduction to computing. Flow charting, computer characteristics, programming in a hypothetical machine language, overview of algorithmic languages. Exercises run on computer.

M203 INTRODUCTION TO LINEAR ALGEBRA

Prerequisite: M104 or equivalent. Real vector spaces, dimension, orthogonality. Systems of linear equations, determinants, matrices and linear transformations. Should be taken in sophomore year.

M204 INTRODUCTION TO ABSTRACT ALGEBRA

Prerequisite: M106. Integers, polynomials, fields, extensions, real and complex numbers, using set notation.

M205 CALCULUS II

4 S.H.

Prerequisite: M106. The concept of area and integral, the calculus of transcendental and trigonometric functions.

M206 CALCULUS III

4 S.H.

Prerequisite: M205. Infinite sequences and series, differential and integral calculus of functions of several variables.

M211 SET THEORY AND LOGIC

Prerequisite: M106. Sets, logic, functions, number systems.

‡M220 BASIC MODERN MATHEMATICS

Set operations, numeration systems, arithmetic algorithms, fractions, percent and informal geometry. Recommended for elementary education majors only.

‡M224 THE STRUCTURE OF NUMBER SYSTEMS I

Logic, elementary set theory, numeration, and the construction and properties of the natural numbers and integers.

‡M225 THE STRUCTURE OF NUMBER SYSTEMS II

Prerequisite: M220 or M224. Construction of the rationals and the reals. Elementary number theory, modular number systems, and some geometry.

‡M226 INTUITIVE GEOMETRY

The intuitive study of space, planes, lines, and figures as sets of points with their properties, coordinate geometry and the basic concepts of measurement.

‡M227 ELEMENTS OF ALGEBRA

Prerequisite: M220 or M225. The basic ideas and structure of algebra with some experimental work.

M250 COMPUTER PROGRAMMING WITH BASIC

Introduction to the BASIC programming language. Exercises are run on the college computer.

M252 FORTRAN PROGRAMMING

Introduction to FORTRAN with applications to scientific problems. Exercises are run on the college computer.

M253 COBOL PROGRAMMING

COBOL (Common Business Oriented Language), including identification, environment, data and procedure divisions with applications to business oriented problems.

M301 MATHEMATICAL DISCOVERY

Techniques of problem solving, appropriate for prospective teachers, but also beneficial to all students. Topics are chosen from algebra, geometry, logic and number theory.

M302 MATHEMATICS OF FINANCE (Spring)

Prerequisite: M106 or M110. The application of algebra to interest, annuities, bonds, investments and life insurance.

M303 MATHEMATICS OF LIFE INSURANCE (Fall)

Prerequisite: M302. Mathematical theory of life contingencies, mortality tables, annuities, net premiums, reserves, non-forfeiture benefits and gross premiums.

M306 FUNDAMENTAL CONCEPTS OF GEOMETRY

Prerequisite: M204. An axiomatic treatment, in depth, of Euclidean and some non-Euclidean geometries.

M308 AFFINE AND PROJECTIVE GEOMETRY (Spring)

Prerequisite: M204. A study of the properties of affine and projective geometries and subgeometries. Developed by synthetic and analytic methods.

M309 HISTORY OF MATHEMATICS (Fall)

Prerequisite: M205. The history of elementary mathematics, through calculus. Emphasis on the major developments in the fields of arithmetic, algebra, and geometry, and on contributions of noteworthy mathematicians and epochs.

M314 ABSTRACT ALGEBRA I

Prerequisite: M204. Algebraic structures, emphasizing groups, rings, integral domains and fields.

‡M316 METHODS OF TEACHING MATHEMATICS IN THE KINDERGARTEN-PRIMARY SCHOOL

Prerequisite: M220 or M225. Methods and materials of instruction appropriate to the teaching of mathematics in grades kindergarten through three.

‡M326 METHODS OF TEACHING MATHEMATICS IN THE ELEMENTARY SCHOOL

Prerequisite: M220 or M225. Methods and materials of instruction appropriate to the teaching of mathematics in grades one through six.

M335 MATHEMATICS FOR SECONDARY SCHOOL TEACHERS (Fall)

Topics from number theory, polynomial rings over the rational, real, and complex number fields, fundamental theorem of algebra, constructible number fields.

M340 PROBLEM SOLVING SEMINAR

Prerequisite: M106 (or consent of instructor). Problems from combinatorics, calculus, and other areas are motivated, analyzed and solved.

M352 ADVANCED FORTRAN

Prerequisite: M252. Selected FORTRAN topics. Exercises and a course project are run on the college computer.

‡M353 ADVANCED COBOL

Prerequisite: M253. Advanced COBOL topics including direct-access concepts and subprograms.

‡M355 ASSEMBLY LANGUAGE PROGRAMMING

Prerequisite: M250, M252, or M253. Introduction to an assembly language. Computer organization, data representation, branching, loops and arrays.

‡M356 QUANTITATIVE APPROACHES TO DECISION MAKING

Prerequisite: M115 or M252. An introduction to qualitative and computer techniques used in decision making.

M400 PROBABILITY

Prerequisite: M205. Properties of the probability set functions, conditional probability, independence, stochastic processes, distributions and expectations of random variables, and limiting distributions.

M402 MATHEMATICAL STATISTICS I (Fall)

Prerequisite: M205. A broad introduction to classical methods. Topics from probability, frequency distributions, hypothesis testing and estimation, correlation and regression.

M403 MATHEMATICAL STATISTICS II (Spring)

Prerequisite: M402. Limiting distributions, distribution-free statistics, analysis of variance, and multiple regression.

M407 ABSTRACT ALGEBRA II (Spring)

Prerequisite: M314. A continuation of M314, with topics chosen from among groups, rings, fields, and linear algebra at the option of the instructor.

M408 INTRODUCTION TO NUMBER THEORY (Fall)

Prerequisite: M204. Elementary properties of integers, the Euclidean algorithm, divisibility, congruence and diophantine equations, and number-theoretic functions.

M409 DIFFERENTIAL EQUATIONS (Fall)

Prerequisite: M206. First and second order differential equations, linear differential equations with constant coefficients, singular solutions, and physical applications.

M410 TOPOLOGY (Spring)

Prerequisites: M206, M204. Point-set topology, including topics such as topologies, continuity, connectivity, compactness, separation axioms, and metric spaces.

M411 REAL ANALYSIS I (Fall)

Prerequisites: M206, M204. Sequences, series, elements of metric topology, monotone and continuous real-valued functions of a real variable.

M412 REAL ANALYSIS II (Spring)

Prerequisite: M411. The Riemann and Riemann-Stieltjes integrals, series and sequences of functions.

M413 INTRODUCTION TO MATHEMATICAL PHYSICS (Spring)

Prerequisite: M409. Curvilinear coordinations, transformations, vector and scalar fields, partial differential equations and applications.

M415 COMPLEX ANALYSIS (Spring)

Prerequisite: M206, M204. Complex numbers, analytic functions, contour integrals, and complex series.

M416 ADVANCED CALCULUS (Fall)

Prerequisites: M206, M204. Functions of several variables, inverse and implicit functions, curves and surfaces, line and surface integrals, orthogonal functions, and Fourier analysis.

M425 NUMERICAL ANALYSIS

Prerequisites: M205 and M252. Finding zeros of functions, numerical differentiation, numerical integration, and numerical solutions of ordinary differential equations.

M440 TOPICS IN ABSTRACT MATHEMATICS (Spring)

Prerequisites: M206, M204. Abstract topics in mathematics not usually covered in formal coursework as a preparation for students to do independent work in their field of interest.

M441 TOPICS IN APPLIED MATHEMATICS (Fall)

Prerequisites: M206, M204. Applied mathematical topics not usually covered in formal course work as a preparation for students to do independent work in their field of interest.

M450 NON-NUMERIC PROCESSING

Manipulation of character strings and analysis of natural language text. Processing of non-numeric data. Structure and characteristics of a string processing language. Programming exercises are run on the college computer.

M452 STOCHASTIC MODELS

Planning and designing stochastic models. Generating pseudorandom numbers and stochastic variates. Study of computer models for simulating business, economics, queueing, inventory and scheduling systems. Structure and characteristics of a special purpose simulation language. Programming exercises are run on the college computer.

‡M455 ADVANCED ASSEMBLY LANGUAGE

Prerequisite: M355. COMPASS assembly language for Control Data CYBER systems.

M490 SPECIAL TOPICS IN MATHEMATICS

Prerequisite: Consent of Department Chairman. This course requires each student to do independent work in his field of interest in mathematics.

ED336M METHODS OF TEACHING MATHEMATICS IN THE SECONDARY SCHOOL

Prerequisite: ED233 or ED240. This course includes a consideration of the aims and principles involved in the teaching of mathematics.

ED430 STUDENT TEACHING AND SEMINAR 6 S.H.

Prerequisite: (See Secondary Education ED430). A one-half semester teaching experience in a secondary school.

ED440 STUDENT TEACHING AND SEMINAR 12 S.H.

Prerequisite: (See Secondary Education ED440). A one semester teaching experience in a secondary school.

MUSIC

Edward J. FitzPatrick, Jr., Music A.D., Chairman

Professor FitzPatrick. Associate Professor Dyer. Assistant Professors Boron, Fagerholm, Hoose, Koury, Walters.

The music program is designed to offer students opportunities either to initiate or to expand their musical experiences in a variety of ways. Guidance in listening techniques and the literature of music, in theoretical and compositional studies, and in the skills necessary for practical performance is available to students.

To graduate as a music minor the student must accumulate 18 hours and fulfill the following minimum requirements: 9 semester hours of music theory, 3 semester hours in a performing course (Chorus or Band) and the remaining semester hours in music courses of the student's choice. The course taken to fulfill the Humanities requirement (MS201 or MS205) may not be counted toward the minor. MS411 is recommended for those preparing to teach at the kindergarten-primary level, and MS422 for those preparing to teach at the elementary level. (Class Piano MS435 is strongly suggested for both Elementary and Kindergarten-Primary majors.)

All courses meet every semester unless otherwise indicated.

MS101 MUSIC THEORY (Fall)

Basic fundamentals, scale systems, melody, rhythm, intervals, chord construction and analysis are learned through writing, sight-singing and dictation.

MS102 ELEMENTARY HARMONY AND MUSICIANSHIP (Spring)

Prerequisite: MS101. A continuation of music theory into harmonic progressions and the foundations of the harmonic craft.

MS201 APPRECIATION OF MUSIC

A general survey of the history and literature of music. Form, orchestration and stylistic features are studied. *Assigned readings.*

MS203 INTERMEDIATE HARMONY AND MUSICIANSHIP I (Fall)

Prerequisite: MS102. The applications of basic theory and harmony into vocal writing and elementary instrumental writing.

MS204 INTERMEDIATE HARMONY AND MUSICIANSHIP II (Spring)

Prerequisite: MS203. Arranging extended harmonies and the analysis of the literature continue the development of musicianship.

MS205 BASIC STUDIES IN MUSIC

Selected works will be heard and analyzed from various approaches. *Recommended for music minors.*

MS241 CHOIR

1 S.H.

The study and performance of choral literature from the Renaissance to the contemporary period. *Performance at college functions and the presentation of concerts. May be taken for a maximum of seven semesters.*

MS242 BAND

1 S.H.

Study of standard band and wind ensemble repertoire; rehearsal techniques; preparation and presentation of concerts. *Performs during basketball and hockey season at home and away games. May be taken for a maximum of seven semesters.*

MS301 ADVANCED HARMONY AND MUSICIANSHIP I (Fall)

Prerequisite: MS204. Compositional techniques are applied to vocal scoring and orchestration with emphasis upon transposition and modulation.

MS302 ADVANCED HARMONY AND MUSICIANSHIP II (Fall)

Prerequisite: MS 301. Form and analysis with contrapuntal writing continue to develop the harmonic sense.

MS402 MUSICIANSHIP—COMPOSITION

Prerequisite: MS302. All the learning and experience of the developing abilities to think in music are capped in a creative musical work of the student's choosing for vocal or instrumental group. If possible, performance of the composition will be realized.

MS411 MUSIC, KINDERGARTEN-PRIMARY

A study of materials and methods suitable for use at the kindergarten-primary level.

MS422 MUSIC, ELEMENTARY SCHOOL

A study of materials and methods suitable for use in the elementary grades.

MS433 MASTERPIECES OF MUSIC

Prerequisite: MS201 or MS205. Representative works from the entire span of music history will be studied and evaluated as independent works of art and as expressions of their age.

MS435 CLASS PIANO

A practical group approach to the piano, in which music fundamentals, reading piano music, learning to harmonize and accompany melodies, transposition and improvisation develop essential keyboard skills. *Recommended for music minors and kindergarten-primary students. May be taken for more than one semester.*

MS436 AMERICAN MUSIC (Fall)

Prerequisite: MS201 or MS205. Developments in the history of American music from the time of the New England hymnodists to the present, including jazz and show music.

MS440 MUSIC OF THE TWENTIETH CENTURY (Spring)

Prerequisite: MS201 or MS205. Trends in contemporary music and their relationship to social and political trends in this century.

MS444 RUSSIAN MUSIC (Spring)

Prerequisite: MS201 or MS205. Music from the time of Catherine the Great to the present will be studied.

MS445 THE PIANO AND ITS LITERATURE

A general culture elective open to all students with no prerequisite. A study of styles and interpretations, from the Baroque to the modern periods, with parallel listening to a great amount of piano literature. The position and importance of the piano in the history of music will be developed through its creative use by composers and musicians.

MS446 THE SYMPHONY

To enhance further the understanding and appreciation of symphonic literature. Intended for those individuals who wish to further their understanding of music as an art. The course is to serve as a guide to the symphonic literature that is most frequently heard in performance, broadcasts and recordings.

MS490 SPECIAL TOPICS IN MUSIC

Directed study and research on an approved topic in music for upperclassmen in consultation with an advisor.

NATURAL SCIENCE

Henry Mariani, Chairman

Associate Professors Demakes, Mariani, McCue, Temple. Instructor Warren.

The department offers the opportunity for mixed majors in the science areas under the heading of natural science. Both major and minor programs are offered in conjunction with the Biology and Regional Studies Departments.

A student who majors in Natural Science is eligible for certification as a General Science Specialist.

The major in Natural Science usually is taken with a secondary education minor and is required to complete the following courses: *BI107 and BI 108 or BI101 and BI102. *CH101 and CH102 or CH107 and CH108, *P101 and P102 or P103 and P104, P306 and P406, and RS101.

A minor in Natural Science may be earned by completing the following courses: BI101 and BI102, CH107 and CH108, and P103 and P104

**These are recommended for those majors who wish to continue their studies in science after graduation.*

NURSING

Anne K. Kibrick, R.N., Ed.D., Chairperson

Professor Kibrick. Assistant Professors: Chandler, Chopoorian, Tyra.

Requirements for the Bachelor of Science in Nursing Degree

The program is designed to meet the criteria for baccalaureate programs in nursing established by the National League for Nursing, a professional organization which has as one of its functions the accreditation of baccalaureate and higher degree programs in nursing. In addition the program meets all educational standards and requirements of the Massachusetts Board of Registration in Nursing, which is charged with the responsibility of holding examinations for licensure and registration of professional nurses.

Students receive preparation in general and professional education with an emphasis on nursing leading to the degree of Bachelor of Science in Nursing. Sixty of the 128 hours of the program are in the nursing major.

Prerequisite courses to the nursing major are indicated by an asterisk. Students must achieve a minimum grade of 2.5 in these courses in order to be considered for the nursing major.

Registered Nurses

Registered nurses must meet the same requirements as all other students; in addition, they must submit their nursing school transcript and three letters of recommendation. Opportunities are available for challenge examinations in the areas of the natural and social sciences and clinical nursing.

Pre-Nursing Program

Freshman Year

E 101	English Composition I	3
*BI101	Biology I	3
*CH107	Intro. to Chemistry I	4
*PY101	Intro. to Psychology	
or		3
*SO201	Intro. to Sociology	3
*M103	College Algebra	3
		16 s.h.

E 102	English Composition II	3
*BI102	Biology II	3
*CH108	Intro. to Chemistry II	4
*PY101	Intro. to Psychology	
or		3
*SO201	Intro. to Sociology	3
	Humanity Requirement	16 s.h.

Sophomore Year

*BI213	Anatomy & Physiology I	4
*PY-NU201	Developmental Psychology I	3
	Humanity Requirement	3
	Humanity Requirement	3
	Social Science Requirement	3
		16 s.h.
*BI214	Anatomy & Physiology II	4
*PY-NU202	Developmental Psychology II	3
*BI312	Medical Microbiology	4
	Social Science Requirement	3
		14 s.h.

Nursing Curriculum Plan

Junior Year

NU300	Introduction to the Delivery of Health Services	3
NU301	Nursing Process	8
NU305	Health Assessment I	4
		15 s.h.
NU302	Clinical Applications of Nursing Theory I	9
NU306	Health Assessment II	4
	Humanity Requirement	3
		16 s.h.

Senior Year

NU401	Clinical Applications of Nursing Theory II	10
NU403	Professional Issues I	3
	Social Science Requirement	3
		16 s.h.
NU402	Synthesis of Clinical Practice Concepts: Nursing Elective	10
NU404	Professional Issues II	3
	Humanity Requirement	3
		16 s.h.

PY-NU201 DEVELOPMENTAL PSYCHOLOGY I

A systematic integrated investigation of the psychological development of children from infancy to the beginning of adolescence.

PY-NU202 DEVELOPMENTAL PSYCHOLOGY II

A systematic integrated investigation of the individual from adolescence through adulthood and old age.

NU300 INTRODUCTION TO THE DELIVERY OF HEALTH SERVICES

Analysis of the main trends, issues and problems in the planning and delivery of health services in the United States. Comparison of urban and rural models of health care delivery. Consideration of the preparation, utilization and distribution of health professionals. Emphasis on understanding health as a value viewed from interdisciplinary perspectives.

NU301 NURSING PROCESS 8 S.H.

Analysis of the nursing process through a problem solving orientation. Provision of opportunities for the application of the process to the care of patients in different clinical settings.

NU302 CLINICAL APPLICATIONS OF NURSING THEORY I 9 S.H.

Introduction to adaptation theory, study of adaptive responses to patients' internal and external environment, the agents precipitating the

responses and the various factors influencing the individual's adaptive capacity. Opportunity for the systematic application of theory to the care of a variety of clients in the health system.

NU305 HEALTH ASSESSMENT I 4 S.H.
Health as a multiphenomenon concept in the care of well individuals and families provides the central focus of this two semester course. Knowledge and skills of health assessment — physical, developmental, and social — form the substantive content. Intervention modalities in health promotion and maintenance are included. First semester practicum concentrates on health history skills and beginning physical assessment.

NU306 HEALTH ASSESSMENT II 4 S.H.
Continuation of NU305. Second Semester practicum concentrates on further development of skills in physical assessment through a study of systems of the body. Major modalities of nursing intervention in the health maintenance setting: health screening, client education, counseling and immunizations.

NU401 CLINICAL APPLICATION OF NURSING THEORY II 10 S.H.
Systematic application of theory to the health care of families and groups in the community.

NU402 NURSING ELECTIVE: SYNTHESIS OF CLINICAL PRACTICE CONCEPTS 10 S.H.
An opportunity to consolidate the educational experiences of the program in a consideration of nursing's role as a result of changes in health delivery systems. Opportunity is provided for an independent investigatory study of health problems and the implications for nursing practice.

NU403 PROFESSIONAL ISSUES I
Within the framework of change theory and through the group process the student will be expected to examine the forces affecting the practice and direction of nursing.

NU404 PROFESSIONAL ISSUES II
Continuation of NU403.

NU405 INDEPENDENT STUDY
Provides an opportunity for selected students to participate in ongoing research or clinical projects, develop a research proposal, or expand and reinforce clinical knowledge and skills through specifically arranged experiences.

PHILOSOPHY

James G. Colbert Jr., Ph.D., Chairman

Professor Colbert, Associate Professors Moore, O'Neill. Assistant Professors Joseph, McGregor, Mellican, O'Sullivan, Scott, Serafini.

The Department of Philosophy offers courses to all interested students as well as a program leading to a major or a minor in philosophy with a B.A. degree in Philosophy.

The major in philosophy requires a student to complete a minimum of 30 semester hours in philosophy which must include PH201, Greek Philosophy; PH203, Logic; PH103, Ethics; and two of the three history of philosophy courses, PH202, PH204, PH205.

The minor in philosophy requires a student to complete a minimum of 18 semester hours in philosophy which must include PH201, Greek Philosophy; and either PH203, Logic or PH103, Ethics.

All major programs should be planned in consultation with the Department Chairman.

An honors program in philosophy is available. Interested candidates should apply to the Department Chairman.

All courses meet every semester unless otherwise indicated.

PH101 PROBLEMS OF PHILOSOPHY
The philosophic method, the problems and issues of philosophy and the great philosophers.

PH102 PHILOSOPHY OF MAN (Fall)
Man is studied as a rational and social being. Modern images of man and the traditional great philosophies of life will be studied.

PH103 ETHICS
A study of the major philosophical views on normative ethics and moral philosophy. These theories will be applied to the individual and to society.

PH105 GREEK PHILOSOPHY
This course concentrates on selected philosophers from the Pre-Socratics through Aristotle.

PH106 EXISTENTIALISM
A critical examination of the leading existentialist thinkers such as Kierkegaard, Nietzsche, Jaspers, Sartre, Marcel and Camus.

PH202 CONTINENTAL RATIONALISTS (Fall)
Prerequisite: PH105. A study of the Continental Rationalists from Descartes to Leibniz.

PH203 LOGIC
The principles and methods of valid reasoning. Special attention will be given to application of logic.

PH204 MEDIEVAL PHILOSOPHY (Fall)
Prerequisite: PH105. A study of philosophers and problems of philosophy from St. Augustine to the fourteenth century.

PH205 BRITISH EMPIRICISTS (Spring)
Prerequisite: PH105. A study of Hobbes, Locke, Berkeley, Hume.

PH207 KANT AND NINETEENTH CENTURY PHILOSOPHY (Fall)
Prerequisite: PH105. A study of the major philosophers from Kant to Bergson.

PH210 SYMBOLIC LOGIC (Fall)
Prerequisite: PH203 or permission of instructor. Includes propositional logic and quantification theory. Axiomatic systems, natural deduction and problems dealing with logical systems will be studied.

PH211 PHILOSOPHY OF HISTORY (Spring)
An examination of various alternative philosophical ways of interpreting history as well as an examination of some of the recurrent problems.

PH302 AESTHETICS (Fall)
Prerequisites: Two courses in the humanities and one in philosophy. Examination of the work of art — its qualities, its creation, its effect.

PH303 SOCIAL AND POLITICAL PHILOSOPHY (Fall)
Examination of the relations between ethics and politics, the sources and limits of political obligation, the functions of the state, the nature of law, civil disobedience and revolution.

PH304 AMERICAN PHILOSOPHY (Spring)
Development of American philosophy through reading and discussion of representative selections. Emphasis is placed on Peirce, James Royce, Whitehead, Santayana, Dewey.

PH305 MEDICAL ETHICS (Spring)
This course explores the basic philosophical problems surrounding Medical Ethics.

PH306 PHILOSOPHY OF RELIGION (Spring)
Prerequisite: One course in philosophy. The nature of religious experience, religious arguments, religion and reality, religion and science, religious language.

PH307 THIRD WORLD SOCIAL AND POLITICAL PHILOSOPHY (Fall)
An examination of the metaphysical, epistemological, and the ethical positions of thinkers such as Gandhi, Fanon, Nkrumah, Guevara, and Mao Tse Tung.

PH308 ORIENTAL PHILOSOPHY (Spring)
A study of the philosophies of India, China and Japan, i.e. Hinduism, Buddhism, Confucianism and Zen.

PH309 MARXIST PHILOSOPHY (Spring)
An examination and evaluation of the philosophical positions held by Marx, Engels, Lenin and contemporary Marxist-Leninists.

PH310 THEORY OF KNOWLEDGE (Fall)

Prerequisite: Two courses in philosophy. This course examines the nature of perception and cognition, the relation of thinking to experience and the nature and limitations of knowledge.

PH311 METAPHYSICS (Spring)

The fundamental problems of being such as causation, contingency, categories, and change. The rejection of metaphysics by Kant and some linguistic philosophers will be examined.

PH312 CONTEMPORARY ETHICAL THEORY (Spring)

Prerequisite: PH103. The major trends in twentieth century ethical and meta-ethical theory: naturalism, intuitionism, emotivism, precipitivism, and the ordinary language approach.

PH313 BUSINESS ETHICS

Prerequisite: PH103 recommended. Applies various ethical positions to the field of business, including the theory and practice of commerce and industry. Uses case studies of consequences of ethical theories.

PH314 PHENOMENOLOGY

Prerequisite: PH106 recommended. The phenomenological movement including consideration of both classical and contemporary phenomenologists such as Brentano, Husserl, Heidegger, Merleau-Ponty, and Ricoeur.

PH402 CONTEMPORARY PHILOSOPHY (Fall)

Prerequisite: PH101. This course studies the main lines of modern thought. Special attention will be given to the twentieth century philosophers — the Age of Analysis.

PH403 PHILOSOPHY OF EDUCATION (Fall)

Examines educational philosophy in relation to its ethical, metaphysical, and epistemological perspectives and evaluates some of the philosophies that claim to be a basis for education; e.g., realism, existentialism, pragmatism and naturalism.

PH404 SEMINAR IN PHILOSOPHY (Spring)

Prerequisite: Four courses in philosophy. One or two selected topics will be treated in depth. Topics will vary from semester to semester.

PH480 DIRECTED RESEARCH IN PHILOSOPHY

Prerequisites: Completion of required courses for the major. Specialized research with a faculty member. Must be taken before PH490. Prior consent of faculty member needed.

PH490 HONORS SEMINAR IN PHILOSOPHY

Prerequisite: PH480. The study area will be determined by the student in consultation with the department chairman and faculty member involved in directing the required reading and honors paper. *By arrangement.*

DEPARTMENT OF PHYSICAL EDUCATION & RECREATION FOR WOMEN

DEPARTMENT OF PHYSICAL EDUCATION & RECREATION FOR MEN

Theresa M. Corcoran, Ed.D., Chairman

Department of Physical Education & Recreation for Women

Peter A. Saitta, Chairman

Department of Physical Education & Recreation for Men

Professors: Corcoran, Cummings, DeAngelis. Associate Professors: Bazzano, Farrell, Goldman, Squires, Sullivan. Assistant Professors: Arnold, Bome, Haslett, Larsen, Loscutoff, Pappalardo, Parker, Roncarati, Saitta, Webb.

Open to all students on an elective basis.

The elective graded-credit program of basic instruction in physical education activities is offered cooperatively by the Departments of Physical Education and Recreation for Men and Women. This program features a wide variety of physical education activities and is designed to meet the knowledge, skill development, fitness, and carry-over needs of the individual student.

Although a student may elect no more than four physical education activities courses for credit during his or her college career, he or she may continue to elect activity courses for no credit.

The following courses each carry one semester hour credit and meet two hours each week:

PE101	Soccer
PE102	Basketball
PE103	Softball
PE104	Volleyball
PE105	Squash
PE106	Wrestling
PE107	Weight Training
PE108	Gymnastics
PE109	Lacrosse
PE110	Swimming
PE112	Golf
PE113	Handball
PE114	Badminton
PE116	Physical Conditioning
PE122	Sailing
PE123	Fencing
PE124	Beginning Tennis
PE125	Advanced Tennis
PE126	Advanced Life Saving
*PE127	Water Safety Instruction
PE128	Riflery
PE130	Gymnastics Moderne
PE133	Advanced Riflery
PE145	Self Defense/Conditioning
PE177-178	Archery/Fencing
D119	Folk & Square Dance Calling
D121	Disco & Social Dance
D132	Advanced Modern Dance
D141	Tap Dance
D143	Jazz
D144	Ballet
D164	Modern Dance
D174	Folk & Square Dance

**Carries 2 semester hours credit — Prerequisite: PE126, plus current Red Cross swimmers certificate.*

The Department of Physical Education & Recreation for Men and the Department of Physical Education & Recreation for Women jointly offer a degree program with broad spectrum of academic offerings involving professional preparation in the fields of Health, Physical Education and Recreation. Physical Education majors will now have an opportunity to select from eight fields of specialization:

**Major — Track Options (Areas of Specialization)*

- I. Teaching Physical Education in the Secondary School
- II. Teaching Physical Education in the Elementary School
- III. Physical Education — Athletic Training
- IV. Physical Education in Business and Industry
- V. Physical Education — Dance
- VI. Physical Education — Recreation
- VII. Physical Education & Recreation for the Handicapped
- VIII. Physical Education — Health

Minor — Students majoring in any major field of specialization may select from the following minors:

- I. Physical Education in the Secondary School
- II. Physical Education in the Elementary School
- III. Recreation
- IV. Physical Education and Recreation for the Handicapped
- V. Coaching
- VI. Dance
- VII. Health

**At the conclusion of the first year, students must successfully pass the criteria established by the Departments of Physical Education and Recreation in order to be considered a Physical Education Major.*

Physical Education Majors may continue with curriculum cited in the 1976-1977 catalog or with advisor's consent may select a specialization within the new program.

Students must meet all departmental requirements prior to registration in all practicum courses, the Internship in Recreation, and Student Teaching.

PHYSICAL EDUCATION MAJOR — TRACK I

Specialization: Teaching Physical Education in the Secondary School

Students selecting this specialization are responsible for meeting the requirements of teaching certification set forth by the Commonwealth of Massachusetts, including: Ed440-Student Teaching, Ed336PE-Methods of Teaching Physical Education in the Secondary School, Ed334-Curriculum of the Secondary Schools, and Py202-Developmental Psychology II. This program is approved by NASDTEC and all graduates of the program are certified in over thirty states. The program leads to a Bachelor of Science degree.

Core Courses Required: (9 SH)

- PE100 Introduction to Physical Education (1 SH)
- PE221 First Aid and Cardio-Pulmonary Resuscitation (2 SH)
- PE225 History & Philosophy of Physical Education
- *PE321 Physiology of Exercise

*Prerequisites: BI211-Anatomy and BI212-Human Physiology

Teaching Track — Required Courses (18 SH)

- PE150 Basic Skills & Movement Experiences (Elective) (1 SH)
- PE183 Team Sports Practicum (1 SH)
- PE184 Individual Sports Practicum (1 SH)
- PE337 Elementary Physical Education: Concepts & Practicum
- PE406 Motor Learning (with approval of instructor)
- PE421 Kinesiology
- PE425 Physical Education for the Atypical
- PE431 Tests and Measurements in Physical Education
- D185 Dance Methods & Techniques (1 SH)

*The following activity courses carry ½ SH credit with the exception of the starred courses – those courses which are starred carry 1 SH credit.

Activity Classes Required (9 SH)

- *PE105 Squash (Elective)
- PE138 Soccer (Men's Rules)
- *PE145 Self Defense and Conditioning (Elective)
- PE163 Conditioning and Weight Training
- PE165 Badminton
- PE166 Wrestling (Required for Men; Elective for Women)
- PE167 Stunts and Tumbling (Elective)
- PE168 Track and Field
- PE169 Football (Required for Men; Elective for Women)
- PE171 Field Hockey (Required for Women; Elective for Men)
- PE172 Power Volleyball
- *PE173 Aquatics
- *PE176 Gymnastics (Women's Events)
- PE177/178 Archery/Fencing (Elective)
- PE181 Lacrosse (Women's Rules)
- PE182 Tennis
- PE186 Golf
- *PE1613 Gymnastics (Men's Events)
- PE1614 Field Sports
- PE1624 Basketball (Women's Rules)
- PE1643 Basketball (Men's Rules)
- PE1664 Softball
- PE1673 Lacrosse (Men's Rules)
- *D164 Modern Dance (Required for Women; Elective for Men)
- *D174 Folk and Square Dance

PHYSICAL EDUCATION MAJOR — TRACK II

Specialization: Teaching Physical Education in the Elementary School (K-8)

Students selecting this specialization are responsible for meeting the requirements for teaching certification set forth by the Commonwealth of Massachusetts, including: E1400-Student Teaching in Physical Education and Seminar, Ed431-Tests & Measurements, and Py201-Developmental Psychology I.

This program is approved by NASDTEC and all graduates of the

program are certified in over thirty states. The program leads to a Bachelor of Science degree.

Core Courses Required: (9SH)

- PE100 Introduction to Physical Education (1 SH)
- PE221 First Aid and Cardio-Pulmonary Resuscitation (2 SH)
- PE225 History & Philosophy of Physical Education
- *PE321 Physiology of Exercise

*Prerequisites: BI211-Anatomy and BI212-Human Physiology

Teaching Track — Required Courses (21 SH)

- PE155 Analysis of Movement Experiences
- PE207 Movement Education: An Individualized Approach to Physical Education
- PE337 Elementary Physical Education: Concepts and Practicum
- PE338 Procedures for Teaching Dance, Games & Sports for Children
- PE357 Practicum in Motor Development for Children with Learning Disabilities
- PE425 Physical Education for the Atypical
- PE431 Tests and Measurements in Physical Education (ED431)

The following activity courses carry 1 SH credit each.

Activity Classes Required (6 SH)

- PE173 Aquatics
- PE191 Introduction to Team Sports for Elementary Physical Education
- PE192 Introduction to Elementary Rhythms
- PE193 Introduction to Gymnastic Activities
- PE194 Introduction to Individual Activities for Elementary Physical Education
- D174 Folk and Square Dance

PHYSICAL EDUCATION MAJOR — TRACK III

Specialization: Athletic Training (Meets the curriculum requirements for the National Athletic Training Association Certification)

This specialization has been designed to equip the student with the knowledge and skills necessary to prevent, treat and rehabilitate athletic injuries in all areas of education and recreation and in a commercial environment.

Core Courses Required: (9 SH)

- PE100 Introduction to Physical Education (1 SH)
- PE211 First Aid and Cardio-Pulmonary Resuscitation (2 SH)
- PE225 History & Philosophy of Physical Education
- *PE321 Physiology of Exercise

*Prerequisites: BI211-Anatomy and BI212-Human Physiology

Athletic Training Track — Required (15 SH)

- AT307 Laboratory Aspects of Athletic Training
- *AT426 Advanced Rehabilitation and Treatment of Injuries
- AT460 Directed Field Work
- HL102 Health Science
- CH200 Nutrition

*Prerequisite: AT307 Laboratory Aspects of Athletic Training

One of the Following: (3 SH)

- PE431 Tests and Measurements in Physical Education (ED431)
- BI301 Drugs: Use and Misuses

One of the Following: (3 SH)

- C340 Coaching Baseball
- C341 Coaching Basketball
- C343 Coaching Football
- C344 Coaching Wrestling
- C346 Coaching Lacrosse
- C347 Coaching Soccer
- PE402 Organization & Administration of Intramurals
- R403 Organization, Supervision and Administration of Community Schools

*The following activity courses carry ½ SH credit with the exception of those courses starred – those courses which are starred carry 1 SH credit.

Activity Classes Required: (6 SH)

- PE163 Conditioning and Weight Training (Required for Men; Elective for Women)
- PE166 Wrestling (Required for Men; Elective for Women)
- PE168 Track and Field
- PE169 Football (Required for Men; Elective for Women)
- PE171 Field Hockey (Required for Women; Elective for Men)
- *PE176 Gymnastics (Women's Events)
- PE181 Lacrosse (Women's Rules)
- *PE1613 Gymnastics (Men's Events)
- PE1624 Basketball (Women's Rules)
- PE1643 Basketball (Men's Rules)
- PE1673 Lacrosse (Men's Rules)

PHYSICAL EDUCATION MAJOR - TRACK IV

Specialization: Physical Education in Business and Industry

In order to provide students with professional options other than teaching, this specialization will offer an excellent potential for employment. The student who specializes in Physical Education in Business and Industry would have possible employment opportunities in Health Clubs, Health Spas, YWCA's, YMCA's, and many business and industry-sponsored programs.

Core Courses Required: (9 SH)

- PE100 Introduction to Physical Education (1 SH)
- PE221 First Aid & Cardio-Pulmonary Resuscitation (2 SH)
- PE225 History & Philosophy of Physical Education
- *PE321 Physiology of Exercise

**Prerequisites: BI211-Anatomy and BI212-Human Physiology*

Physical Education in Business and Industry Track — Required Courses (6 SH)

- PE421 Kinesiology
- PE460 Directed Field Work

Electives: (12 SH)

Select four (4) courses from the following with the consent of an advisor.

- PE156 Individual/Group Conditioning Programs
- PE401 Organization and Administration of Physical Education, Health and Athletics
- PE425 Physical Education for the Atypical
- AT307 Laboratory Aspects of Athletic Training
- *AT426 Advanced Rehabilitation of Athletic Injuries
- R281 Recreation & Leadership
- M120 Basic Statistics
- CH200 Nutrition

**Prerequisite: PE307-Laboratory Aspects of Athletic Training*

Activity Classes Required: (6 SH)

- PE163 Conditioning and Weight Training (.5 SH)
- PE173 Aquatics (1 SH)
- Plus 4.5 additional credits in Physical Education skill activity with the consent of an advisor.

PHYSICAL EDUCATION MAJOR — TRACK V

Specialization: Dance

This track is designed for the student who majors in Physical Education with an interest in dance. It provides a concentration in Educational Dance with an opportunity to explore the major areas of theatrical performance.

The student who specializes in this area would be prepared to teach dance in many areas of the private sector. Students who wish to teach in the public schools are responsible for meeting the requirements of teaching certification of the Commonwealth of Massachusetts.

Core Courses Required: (9 SH)

- PE100 Introduction to Physical Education
- PE221 First Aid and Cardio-Pulmonary Resuscitation
- PE225 History & Philosophy of Physical Education
- *PE321 Physiology of Exercise

**Prerequisites: BI211-Anatomy and BI212-Human Physiology*

Dance Track — Required Courses (20 SH)

- D270 History of Dance
- D277 Production of Movement Related Activities
- D278 Choreography
- D279 Pedagogy of Dance
- D370 Practicum in Dance
- PE155 Analysis of Movement Experiences
- PE207 Movement Education: An Individualized Approach to Physical Education

The following courses carry 1 SH credit each.

Activity Classes Required: (7 SH)

- D132 Advanced Modern Dance
- D141 Tap Dance
- D143 Jazz
- D144 Ballet
- D164 Modern Dance
- D174 Folk and Square Dance
- PE192 Introduction to Elementary Rhythms

PHYSICAL EDUCATION MAJOR: TRACK VI

Specialization: Recreation

This program is designed to provide the Physical Education major with an opportunity to develop a concentration in the field of Recreation. This specialization provides opportunities in leadership development through laboratory, field work and internship experiences. Through interdisciplinary offerings, options are available for students interested in urban planning, management and environmental studies.

Students must meet the criteria for a baccalaureate degree including a professional semester involving two eight week sessions of full-time service in an approved recreation agency, community school or outdoor education program.

Core Courses Required: (9 SH)

- PE100 Introduction to Physical Education (1 SH)
- PE221 First Aid & Cardio-Pulmonary Resuscitation (2 SH)
- PE225 History & Philosophy of Physical Education
- *PE321 Physiology of Exercise

**Prerequisites: BI211-Anatomy and BI212-Human Physiology*

Recreation Track — Required Course: (16 SH)

- R251 Recreation for Groups with Special Needs
- R281 Recreation and Leadership
- R405 Workshop in Outdoor Education (6 SH)
- R481 Organization & Administration of Community Recreation
- PE150 Basic Skills & Movement Experience (1 SH)

Two of the Following: (6 SH)

- R285 Camping Education
- R352 Therapeutic Recreation and Gerontology
- R381 Recreation and the Schools
- R403 Organization, Supervision and Administration of Community Schools
- PB301 Theory & Principles of Management
- RS375 Urban Planning
- RS377 Urban Environmental Problems

The following courses carry 1 SH credit each.

Activity Classes Required: (3 SH)

- PE173 Aquatics
- PE177/178 Archery/Fencing
- D174 Folk and Square Dance

Required: (12 SH)

- R485 Internship & Seminar in Recreation

PHYSICAL EDUCATION MAJOR: TRACK VII

Specialization: Physical Education & Recreation for the Handicapped

This specialization provides an opportunity for physical education major students to select courses related to physical education and recreation programs for individuals and groups with special needs.

In addition to traditional types of employment in physical education and recreation, students successfully completing this specialization may find employment and program development opportunities as a

result of new federal and state grants such as: "766", "636", "94-142", "504". The Vocational Rehabilitation Act and the Older Americans Act.

Students must meet the criteria for a baccalaureate degree including a professional semester involving two eight week periods of full-time service in an approved cooperating community school, recreation agency, hospital, nursing home or rehabilitation center.

Admission to the program with approval of advisor.

Core Courses Required: (9 SH)

- PE100 Introduction to Physical Education (1 SH)
- PE221 First Aid & Cardio-Pulmonary Resuscitation (2 SH)
- PE225 History and Philosophy of Physical Education
- *PE321 Physiology of Exercise

**Prerequisites: BI211-Anatomy and BI212-Human Physiology*

Physical Education & Recreation for the Handicapped — Required Courses (16SH)

- PE150 Basic Skills and Movement Experiences (1 SH)
- PE425 Physical Education for the Atypical
- R281 Recreation & Leadership
- R405 Workshop in Outdoor Education (6 SH)
- R481 Organization & Administration of Community Recreation

One of the Following: (3SH)

- PE205 Physical Education for the Mentally Retarded
- R352 Therapeutic Recreation and Gerontology

One of the Following: (3 SH)

- **R455 Physical Education and Recreation for the Mentally Retarded-Practicum and Seminar
- ***R459 Practicum and Seminar in Therapeutic Recreation and Gerontology

Activity Classes Required: (3 SH)

- PE173 Aquatics
- D174 Folk and Square Dance
- PE177/178 Archery/Fencing

***Prerequisite: PE205 Physical Education for the Mentally Retarded*

****Prerequisites: R281 Recreation and Leadership & R352 Therapeutic Recreation and Gerontology*

Required: (12 SH)

- R485 Internship & Seminar in Recreation

PHYSICAL EDUCATION MAJOR: TRACK VIII

Specialization: Health

This track is designed for the student who majors in physical education with an emphasis in health.

The student who specializes in the health area would have possible employment opportunities in teaching, public or private health agencies, community health services, service for the elderly, and related health programs.

Students who wish to teach are responsible for meeting the requirements for teaching certification of the Commonwealth of Massachusetts.

Core Courses Required: (9 SH)

- PE100 Introduction to Physical Education
- PE221 First Aid & Cardio-Pulmonary Resuscitation
- PE225 History & Philosophy of Physical Education
- *PE321 Physiology of Exercise

**Prerequisites: BI211-Anatomy and BI212-Human Physiology*

Health Track-Required Courses: (15 SH)

- HL103 Health Problems in the Classroom
- HL306 Current Problems in Health and Physical Education
- HL460 Directed Field Work
- BI209 Environmental Biology
- CH200 Nutrition

One of the Following: (with consent of advisor): (3 SH)

- BI301 Drugs: Use and Misuse
- PY250 Psychology of Drug and Alcohol Dependence

One of the Following: (with consent of Advisor): (3 SH)

- PE425 Physical Education for the Atypical
- PY312 Psychology of Exceptional (Special Needs) Children
- SO213 Medical Sociology

The following activity courses carry ½ SH credit with the exception of the courses starred — those which are starred carry 1 SH credit each.

Activity Classes Required: (6 SH)

- *PE150 Basic Skills and Movement Experiences
- PE163 Conditioning & Weight Training
- *PE173 Aquatics
- *D174 Folk and Square Dance

Choose 2½ S.H. from among groups I, II, III. You must choose at least one (1) activity from each group. The following activity courses carry ½ SH credit with the exception of those starred — those courses starred carry 1 SH credit.

I

- PE167 Stunts and Tumbling
- *PE176 Gymnastics (Women's Rules)
- *PE1613 Gymnastics (Men's Rules)

II

- *PE105 Squash
- *PE145 Self Defense and Conditioning
- PE165 Badminton
- PE166 Wrestling
- PE168 Track & Field
- PE177/178 Archery/Fencing
- PE182 Tennis
- PE186 Golf
- *D164 Modern Dance

III

- PE138 Soccer (Men's Rules)
- PE169 Football
- PE172 Power Volleyball
- PE181 Lacrosse (Women's Rules)
- PE1614 Field Sports
- PE1623 Basketball (Men's Rules)
- PE1624 Basketball (Women's Rules)
- PE1664 Softball
- PE1673 Lacrosse (Men's Rules)

Minor: Physical Education in the Secondary School

(Advisor: Dr. Cummings)

A minor in physical education in the secondary school may be earned by successfully completing the following requirements:

Required Courses: (9 SH)

- PE183 Team Sports Practicum
- PE184 Individual Sports Practicum
- PE406 Motor Learning (with approval of advisor)
- D185 Dance Methods and Techniques
- ED336PE Methods of Teaching Physical Education in the Secondary School

Elect Two of the Following: (6 SH)

- PE204 Officiating Women's Sports
- PE205 Physical Education for the Mentally Retarded
- PE401 The Organization and Administration of Physical Education, Health and Athletics
- PE421 Kinesiology
- ED334 Curriculum of the Secondary Schools
- HL306 Current Problems in Health and Physical Education
- *R455 Physical Education and Recreation for the Mentally Retarded — Practicum and Seminar

C203 Coaching Team Sports

**Prerequisite: PE205 Physical Education for the Mentally Retarded*

Select Six Semester Hours of skill development activity courses, including one course from each of the following categories: Dance, Team Sport or Individual Sport.

MINOR: PHYSICAL EDUCATION IN THE ELEMENTARY SCHOOL

(Advisors: Professor Farrell — Professor Saitta)

A minor in physical education in the elementary school may be earned by successfully completing a concentration of courses in the field of Elementary Physical Education.

Those desiring to teach, must meet the requirements for certification of the Commonwealth of Massachusetts which may be accomplished by electing the major in physical education in the secondary school.

Required Courses: (21 SH)

- PE155 Analysis of Movement Experiences
- PE191 Introduction to Team Sports for Elementary Physical Education
- PE192 Introduction to Elementary Rhythms
- PE193 Introduction to Gymnastic Activities
- PE194 Introduction to Individual Activities for Elementary Physical Education
- PE207 Movement Education: An Individualized Approach to Physical Education
- PE337 Elementary Physical Educations: Concepts and Practicum
- PE338 Procedures for Teaching Dance, Games & Sports for Children
- PE357 Practicum in Motor Development for Children with Learning Disabilities

Activity courses to be selected with consent of advisor. (2 SH)

MINOR: RECREATION (20 SH) (Advisor: Dr. DeAngelis)

In addition to the basic college curriculum and major requirements, students planning to minor in the field of recreation must satisfactorily complete eight (8) semester hours of required courses and elective courses totaling twelve (12) semester hours as listed below:

Core Courses: (8 SH)

- R281 Recreation and Leadership
- R481 Organization and Administration of Community Recreation
- PE221 First Aid & Cardio-Pulmonary Resuscitation (2 SH)

From among the courses listed below, students must select courses totaling an additional twelve (12) credits.

- R251 Recreation for Groups with Special Needs
- R285 Camping Education
- R352 Therapeutic Recreation & Gerontology
- R381 Recreation and the Schools
- R403 Organization, Supervision, and Administration of the Community School
- R405 Workshop in Outdoor Education (6 SH)
- *R455 Physical Education & Recreation for the Mentally Retarded — Practicum and Seminar
- PE357 Practicum in Motor Development for Children with Learning Disabilities

**Prerequisite: PE205 Physical Education for the Mentally Retarded*

MINOR: PHYSICAL EDUCATION AND RECREATION FOR THE HANDICAPPED (20 SH) (Advisor: Dr. DeAngelis)

This minor provides course offerings (20 SH) in sequential progression, which prepares the student for assuming a leadership role in physical education and/or recreation for individuals or groups with special needs.

Admission to the program with approval of advisor.

Core Courses: (11 SH)

- PE221 First Aid & Cardio-Pulmonary Resuscitation (2 SH)
- PE425 Physical Education for the Atypical
- R281 Recreation and Leadership
- R481 Organization & Administration of Community Recreation

One of the Following: (3 SH)

- PE357 Practicum in Motor Development for Children with Learning Disabilities
- PE406 Motor Learning (with consent of instructor)

One of the Following: (3 SH)

- PE205 Physical Education for the Mentally Retarded
- R251 Recreation for Groups with Special Needs
- R352 Therapeutic Recreation and Gerontology

One of the Following: (3 SH)

- *R455 Physical Education and Recreation for the Mentally Retarded — Practicum and Seminar
**Prerequisite: PE205 — Physical Education for the Mentally Retarded*
- *R459 Practicum and Seminar of Therapeutic Recreation and Gerontology
**Prerequisite: PE352 — Therapeutic Recreation and Gerontology*

MINOR: COACHING (20 SH) (Advisors: Professor Saitta & Dr. Corcoran)

The coaching minor is designed for students with an interest in coaching. Students must meet the prerequisites as listed in the course description.

Required Courses: (14 SH)

- C460 Directed Field Work in Coaching
- PE221 First Aid and Cardio-Pulmonary Resuscitation (2 SH)
- PE307 Laboratory Aspects of Athletic Training
- PE401 Organization and Administration of Physical Education and Athletics
- PE421 Kinesiology

Activity Classes Required: (6 SH) (Student must have approval of instructor)

**Choose Two (2) from the Following:*

- C189 Coaching and Teaching Gymnastics
- C340 Coaching Baseball
- C341 Coaching Basketball
- C342 Coaching Track & Field
- C343 Coaching Football
- C344 Coaching Wrestling
- C345 Coaching Hockey
- C346 Coaching Lacrosse
- C347 Coaching Soccer
- PE204 Officiating Women's Sports

**Student must have a Field Work Experience in Coaching at least one seasonal sport (Minimum 40 hours)*

MINOR: DANCE (21 SH) (Advisor: Professor Pappalardo)

This minor is designed for those students with an interest in dance. It is suitable for the novice as well as the trained dancer.

Required Courses

- D132 Advanced Modern Dance
- D143 Jazz
- D144 Ballet
- D164 Beginning Modern Dance
- D270 History of Dance
- D277 Production of Movement Related Activities
- D278 Choreography
- D279 Pedagogy of Dance
- D370 Practicum in Dance
- PE207 Movement Education: An Individual Approach to Physical Education

MINOR: HEALTH (20 SH) (Advisor Dr. Corcoran & Professor Squires)

This minor is designed for those students with an interest in Health related areas.

Students must meet the prerequisites as listed in the course description.

Required Courses: (14 SH)

- HL103 Health Problems in the Classroom
 HL306 Current Problems in Health and Physical Education
 HL460 Directed Field Work in Health
 PE221 First Aid & Cardio-Pulmonary Resuscitation
 BI209 Environmental Biology

Choose Two of the Following: (6 SH)

- PE425 Physical Education for the Atypical
 BI211 Anatomy
 BI212 Human Physiology
 BI301 Drugs: Use and Misuse
 PY250 Psychology of Drug and Alcohol Dependence
 PY412 Psychology of Exceptional Children
 SO213 Medical Sociology
 CH200 Nutrition

All courses meet every semester unless otherwise indicated.

PE100 INTRODUCTION TO PHYSICAL EDUCATION

2L., 1 S.H.

An overview of Physical Education which will include testing and evaluation of each future physical education major. In conjunction with this course, each student must spend 45 hours in a school physical education program. Required of all students majoring in Physical Education. The course should be taken by all Freshmen during Semester I. Transfer students should take the course during their first semester on campus.

PE150 BASIC SKILLS AND MOVEMENT EXPERIENCES

1 S.H.

This course affords the opportunity for the student to perfect himself as the performer of gross motor skills, and provides the student with the tools he needs to give to others, the understanding of what is involved in perfecting of performance in gross motor skills.

PE155 ANALYSIS OF MOVEMENT EXPERIENCES

This course will concentrate on fundamental skills progressing from the application of Laban's conception of movement with simple handling of implements and equipment, to comparing of Laban's concepts of movement with kinesiological principles.

PE156 INDIVIDUAL AND GROUP CONDITIONING PROGRAMS

The development of programs for muscular strength and cardio-respiratory endurance. The use and interpretation of results of dynamometers, ergometers, calipers and tread mills.

PE204 OFFICIATING WOMEN'S SPORTS

The ethics, knowledge and techniques of officiating girls' and women's sports are stressed. The sports included are basketball, volleyball, softball, field hockey and track and field.

PE205 PHYSICAL EDUCATION FOR THE MENTALLY RETARDED

A study of the characteristics, potentials and limitations of the mentally retarded in the physical education curriculum. The student is provided with an understanding of the philosophy, objectives, and guiding principles of programming physical education activities for the mentally retarded.

PE207 MOVEMENT EDUCATION: AN INDIVIDUALIZED APPROACH TO PHYSICAL EDUCATION

2L.

Movement Education is designed to help the student understand the basic concepts of movement as developed by Rudolf Laban, and how they relate to one's everyday life experiences.

PE221 FIRST AID AND CARDIO-PULMONARY RESUSCITATION

2S.H.

Designed to fulfill the requirements of the American Red Cross for the Standard First Aid and Personal Safety Certificate and the Basic Life Support Cardio-Pulmonary Resuscitation Certificate. Also includes basic techniques in athletic training.

PE225 HISTORY AND PHILOSOPHY OF PHYSICAL EDUCATION

A study of the history of physical education from the earliest man to the

present. An examination of the leading philosophies of education upon which physical education has been based.

PE301 PHYSICAL EDUCATION IN THE ELEMENTARY SCHOOL

A study of the aims and objectives of physical education at the elementary school level of instruction. Emphasis is on the current materials and techniques used for the teaching of physical education in kindergarten through grade 6. Recommend any minor elect this course if it is not required by his or her curriculum.

PE321 PHYSIOLOGY OF EXERCISE

2L.

Prerequisite: BI311. A study of the effects of exercise on human organs.

PE337 ELEMENTARY PHYSICAL EDUCATION: CONCEPTS AND PRACTICUM

A study of current methods, materials, and objectives for the teaching of physical education, pre-school through Grade 6. Emphasis on planning lessons, use of audio-visual aids, and directed laboratory experience.

PE338 PROCEDURES FOR TEACHING DANCE, GAMES AND SPORTS FOR CHILDREN

2 S.H.

Practice and theory in the selection and teaching of dance activities and games and sports for children of elementary school age.

PE357 PRACTICUM IN MOTOR DEVELOPMENT FOR CHILDREN WITH LEARNING DISABILITIES

2L.

The objectives will be to plan and implement programs to assist children in developing spatial relationships, visual motor coordination, body awareness, motor patterning, perceptual matching, and other related activities which affect learning. Opportunities will be provided for the observation and evaluation of children through Standardized Perceptual Motor Tests.

PE401 THE ORGANIZATION AND ADMINISTRATION OF PHYSICAL EDUCATION, HEALTH, AND ATHLETICS

A study of the philosophy, objectives, policies, and problems of the administrative process attached to physical education, health, and athletic programs in the school.

PE402 ORGANIZATION AND ADMINISTRATION OF INTRAMURALS

A study of historical, philosophical and theoretical background of Intramurals. Objectives include organizational procedures and designs, and administration of continuing and related programs.

PE406 MOTOR LEARNING

Prerequisites: BI211-212, PY203, PE421. Analyzes the factors involved in motor skill learning, and investigates relationships between perception, cognition, and motor skill learning. Discusses major theories of learning as applied to motor skills.

PE421 KINESIOLOGY

An analytic study of human motion through mechanics.

PE425 PHYSICAL EDUCATION FOR THE ATYPICAL

A study of the various physical disabilities and their implication for physical education.

PE431 TESTS AND MEASUREMENTS IN PHYSICAL EDUCATION

A study of the development, evaluation, and application of tests in physical education. A study of elementary statistical techniques and tools with application to physical education today.

PE490 HONORS IN PHYSICAL EDUCATION

Directed study and independent research on an approved problem of interest to, and selected by, the student. Research will be conducted under faculty supervision. A written document of acceptable quality must be presented at the conclusion of the investigation.

RECREATION

R251 RECREATION FOR GROUPS WITH SPECIAL NEEDS

(Formerly PE251) An introduction to the philosophy, objectives and basic concepts of recreation programming for special groups. Emphasis will be placed on methods, materials and leadership techniques for conducting programs for the ill and handicapped, the mentally retarded, teens, aged, the disadvantaged, and other special groups within a community.

R281 RECREATION AND LEADERSHIP

(Formerly PE281) This course acquaints prospective community leaders, camp counselors and playground leaders with the need for the values of recreation in our society.

R285 CAMPING EDUCATION

(Formerly PE285) A basic course in camping as an educational/recreational program.

R352 THERAPEUTIC RECREATION AND GERONTOLOGY

(Formerly PE352) Prerequisite: PE251. An in-depth course designed to acquaint the student with specific impairments and handicapping conditions and their implications for recreation, particularly in a rehabilitative setting. Special emphasis will be placed on the elderly and the special problems of aged persons. Field trips and laboratory experience will be provided.

R381 RECREATION AND THE SCHOOLS

(Formerly PE381) An in-depth study of the school as a focal point for the provision of total recreation for all ages. Opportunities will be provided for observation and field work in recreation programs at recognized "Community Schools."

R403 ORGANIZATION, SUPERVISION AND ADMINISTRATION OF COMMUNITY SCHOOLS

(Formerly PE403) An in-depth study of planning, organizing, managing, directing, supervising, and evaluating every phase of a community school recreation program.

R405 WORKSHOP IN OUTDOOR

EDUCATION (Spring) 6 S.H.
(Formerly PE405) This course will stress the basic information fundamental to understanding the interrelationships that exist between the natural environment and man. The objectives of this course will be accomplished by classroom lectures, field trips, and camp experiences. Enrollment by permission only. Laboratory fee.

R455 PHYSICAL EDUCATION AND RECREATION FOR THE MENTALLY RETARDED — PRACTICUM AND SEMINAR

(Formerly PE455) Prerequisite: PE205. An in-depth study of the problems of the mentally retarded child as he is influenced by physical education and recreational activities. Thirty hours of field work.

R459 PRACTICUM SEMINAR IN THERAPEUTIC RECREATION AND GERONTOLOGY

(Formerly PE459) Prerequisites: PE281 and PE352. An in-depth study of the philosophy, objectives, and basic concepts of therapeutic recreation. Emphasis will be on rehabilitation needs and the team approach within institutional and community settings. Opportunities will be provided for thirty hours field work experience in recreation therapy and/or working with the aged.

R481 ORGANIZATION AND ADMINISTRATION OF COMMUNITY RECREATION (Spring)

(Formerly PE481) Prerequisite: PE281. The historical, philosophical and theoretical background of recreation, play and leisure through classroom lectures, planning of community recreation programs and leadership experiences.

R485 INTERNSHIP AND SEMINAR IN RECREATION

12SH
Professional field experience of two eight week periods providing full-time service to approved cooperating recreation agency and/or

outdoor education center, community school, hospital or rehabilitation center. Students will have an opportunity to gain laboratory experiences in areas appropriate to their career choice such as: outdoor schools, community schools, recreation, gerontology and geriatric programs, camps and municipal recreation programs. Need approval of advisor.

HEALTH

HL102 HEALTH SCIENCE

Stress is placed on scientific information and the development of health practices which contribute to effective living.

HL103 HEALTH PROBLEMS IN THE CLASSROOM

Health problems occurring in school-age children which adversely affect learning will be presented. Emphasis will be placed on the role of the teacher in recognizing and dealing with these problems.

HL306 CURRENT PROBLEMS IN HEALTH AND PHYSICAL EDUCATION (Spring)

(Formerly PE306) A topical approach to today's problems in health and physical education through the use of current literature.

ATHLETIC TRAINING

AT307 LABORATORY ASPECTS OF ATHLETIC TRAINING

(Formerly PE307) Prerequisite: PE221. Advanced course in athletic training. Lecture and laboratory.

AT426 ADVANCED REHABILITATION AND TREATMENT OF ATHLETIC INJURIES

Advanced course in athletic training, dealing with injury; prevention and treatment.

AT460, C460, HL460, PE460 DIRECTED FIELD WORK

Student will be assigned to an agency, business, hospital, school or institution to gain experience in the proposed area of specialization: Health, Athletic Training, Physical Education in Business and Industry and Coaching. Forty (40) hours of Field Work plus a weekly seminar will also be included in the courses.

COACHING

C203 COACHING TEAM SPORTS (Spring)

(Formerly PE203) The philosophy, standards, techniques, and strategy of coaching competitive girls' and women's teams in basketball, softball, volleyball, field hockey, soccer, and speedball.

C340 COACHING BASEBALL

(Formerly PE340) The theory and practice of baseball team and individual play. The study of offensive and defensive strategy as applied under game conditions.

C341 COACHING BASKETBALL (Fall)

(Formerly PE341) Prerequisite: PE164 or by permission of Department Chairman. The theory and practice of basketball fundamentals, including individual play and styles of team offense and defense.

C342 COACHING TRACK AND FIELD (Spring)

(Formerly PE342) Prerequisite: PE160 or by permission of Department Chairman. The theory and practice of coaching track and field events at all levels of competition.

C343 COACHING FOOTBALL (Spring)

(Formerly PE343) Prerequisite: PE169 or by permission of Department Chairman. The study of various offensive and defensive systems of football play. The study of rules, strategy, coaching methods, conditioning and other allied components in administering a football program.

C344 COACHING WRESTLING (Fall)

(Formerly PE344) Prerequisite: PE166 or by permission of Department Chairman. A study of the essential techniques of wrestling, conditioning and preparation of teams for meets and tournaments.

C345 COACHING HOCKEY 2C.L., 2L.
(Formerly PE345) The theory and practice of ice hockey team and individual play. The study of various concepts of team defense and offense under varied situations of competition. Mastery of the fundamentals of skating and other ice hockey playing skills.

C346 COACHING LACROSSE (Spring)
(Formerly PE346) Prerequisite: PE167 or by permission of Department Chairman. The theory and practice of coaching lacrosse. The study of the fundamental skills and strategies of team offense and defense, individual play, and in-season and out-of-season preparation.

C347 COACHING SOCCER
(Formerly PE347) Prerequisite: PE167 or by permission by Department Chairman. An in-depth study of the theory and practice of soccer fundamentals, including individual play and styles of team offense and defense.

DANCE

D270 HISTORY OF DANCE
(Formerly PE270) A study of the development of dance from primitive man to current trends influencing choreography. This course gives the students an intellectual knowledge of dance to complement their knowledge of the physical skills.

D277 PRODUCTION OF MOVEMENT RELATED PERFORMANCES
A basic course to develop the skills needed to stage and produce a variety of movement related activities.

D278 CHOREOGRAPHY
A course in which the experienced dancer develops the skills necessary to create artistic compositions.

D279 PEDAGOGY OF DANCE
A methods course to develop teaching skill in modern dance, ballet, jazz, tap, social and folk and square dance. A working knowledge of labanotation will also be developed.

D370 PRACTICUM IN DANCE 2L., 2S.H.
(Formerly PE370) A practical application of the dance techniques studied in activity classes. One hour of seminar and two hours' teaching experience per week.

PHYSICS

Henry Mariani, Chairman

Professor McCarthy. Associate Professors Demakes, Gordon, Mariani, McCue, Temple. Assistant Professors Brenner, O'Brien. Instructor Warren.

The Physics Department offers a wide variety of courses in the area of Physics, leading to either a major or a minor in Physics. The requirements for these are listed under Natural Science in this catalog.

SUGGESTED PROGRAM FOR PHYSICS MAJORS

Freshman Year	
P101	P102
M105	M106
Sophomore Year	
P201	P202 or P204
M205	M206
Junior Year	
P401 or P409	P402 or P410
P213	P204 or P202
M409	M413
Senior Year	
P409 or P401	P410 or P402
P407	P408
Math Elective	Math Elective

Major requires only 36 semester hours.

All courses meet every semester unless otherwise indicated.

P101 COLLEGE PHYSICS I 2 L., 4 S.H.
Prerequisite: Student should be taking M105 and/or M106 concurrently. A study of kinematics, dynamics, circular and harmonic motion, reference frames, inertia, force, work, etc. as well as the conservation laws.

P102 COLLEGE PHYSICS II 2 L., 4 S.H.
Prerequisites: P101 and M106 and/or M107 (may be taken concurrently). A study is made of electricity, magnetism and the concepts of modern, non-classical, physics and relativity as well as modern atomic theory.

P103 GENERAL PHYSICS I 2 L., 4 S.H.
Topics covered include mechanics and the laws of motion, projectile motion and satellite motion, gravitation, momentum, etc. and the energy conservation laws. *Not recommended for science majors.*

P104 GENERAL PHYSICS II 2 L., 4 S.H.
Prerequisite: P103. Topics covered include electric and magnetic interactions, electromagnetic radiation, optics, atomic structure and radioactivity. *Not recommended for science majors.*

P201 COLLEGE PHYSICS III 2 L., 4 S.H.
Prerequisites: P102 and M206 (may be taken concurrently). A general treatment of the problem of mechanical and electromagnetic radiation as wave phenomena.

P202 ELECTROMAGNETIC THEORY (Spring)
Prerequisite: P201 and M206. M409 may be taken concurrently. Maxwell's equations are developed in differential and integral form. Special topics and applications such as electrodynamics, tensors and magnetic resonance are studied. Extensive use is made of Vector Calculus.

P204 STATISTICAL PHYSICS (Fall)
Prerequisites: P201 and M206. M409 may be taken concurrently. The microscopic properties of particles governed by atomic physics are considered, using a statistical approach and are connected to the macroscopic behavior of physical systems.

P206 STATICS (Fall)
Prerequisites: P101 and M106. M205 may be taken concurrently. A study of statics systems; composition and resolution of forces, resultants, concentrated and distributed; equilibrium, 2 and 3 dimensional; analysis of simple structures; friction, moments of inertia.

P207 MECHANICS OF MATERIALS (Spring)
Prerequisites: P102 and M205. M206 may be taken concurrently. A study of the mechanics of deformable bodies based on the fundamental concepts of equilibrium, geometry of strain, and properties of materials. Relations between stresses, strains, and displacements are studied in detail.

P213 ELECTRICAL SYSTEMS AND CIRCUITS (Spring) 2 L., 4 S.H.
Prerequisites: P102 and M205 (may be taken concurrently). A detailed study is made of resistive and reactive circuits. Topics covered include: Ohm's Law, Kirchhoff's Laws, signals and waveforms, and first and second order systems.

P251 ASTRONOMY
An introductory course which treats the major features of the solar system and provides an introduction to the world of the stars.

P401 MODERN PHYSICS I (Fall) (Alternate Years)
Prerequisite: P201. The special theory of relativity, the beginnings of quantum theory, the development of wave mechanics and the solution of Schrodinger's equation for some one-dimensional systems are considered.

P402 MODERN PHYSICS II (Spring) (Alternate Years)
Prerequisites: P401. The formal structure of quantum mechanics. Schrodinger's equation in three dimensions, spin angular momentum, and approximation methods in quantum mechanics are treated.

P406 HISTORY AND PHILOSOPHY OF SCIENCE (Fall)

Prerequisites: PS101 and PS102 or equivalent. The primary aims of the course are to trace the development of the physical sciences from their lowly origins in the earlier civilizations to their present prominent status in our society and to examine the essential ideas that accompanied and guided their growth.

P407 ADVANCED LAB I (Fall) 6 L., 3 S.H.
Prerequisites: P201, M207. An intensive laboratory course designed to acquaint the students with the modern techniques and instrumentation of physics.

P408 ADVANCED LAB II (Spring) 6 L., 3 S.H.
Prerequisite: P407. A continuation of the previous semester's work with special application of the methods to more advanced problems of interest to the students and faculty director.

P409 THEORETICAL PHYSICS I (Fall) (Alternate Years)
Prerequisites: P413, M402. The dynamics of particles, rigid bodies and elastic media are examined by the Newtonian, LaGrangian and Hamiltonian methods.

P410 THEORETICAL PHYSICS II (Spring) (Alternate Years)
Prerequisites: P409 or P203, M413. A detailed development and study of electromagnetic theory and Maxwell's equations and their application are considered.

M450 SPECIAL TOPICS IN PHYSICS I (Spring) 2 S.H.
Prerequisites: Junior or Senior Physics majors with the permission of the Department Chairman. The topics to be covered will be set up by the instructor to complete the needed backgrounds of the students involved. They will be in special areas of physics and at an advanced level.

P451 SPECIAL TOPICS IN PHYSICS II (Fall) 2 S.H.
Prerequisites: P450. A continuation of the above course.

P460 SENIOR RESEARCH I (Spring)
For physics majors only. Hours will be by arrangement with the professor in charge. Research problems are assigned to each student. Work will be done under supervision of a faculty member. The work will consist of a literature search, laboratory work and a written account of the results.

P461 SENIOR RESEARCH II (Fall)
Prerequisite: P460. Hours will be by arrangement with the professor in charge. A continuation of P460 with a written thesis being presented to the department.

P490 HONOR SEMINAR (Spring)
For physics majors only. Supervised study and research according to needs and interests of the individual student and the department. Hours variable. Will confer honors if all other requirements are met. Replaces P461 for honor students.

PS101 PHYSICAL SCIENCES I
An introductory course for non-science majors. Topics in physics and astronomy are considered. Laboratory and demonstration activities are used to develop the inductive scientific method.

PS102 PHYSICAL SCIENCES II
Prerequisites: PS101. A continuation of the development of the concepts of science for non-science majors. Topics in chemistry and atomic structure are considered. Laboratory and demonstration activities are used to develop the inductive scientific method.

PS105 WORKSHOP IN PRACTICAL ELECTRONICS 2 L.
Designed for students with little or no training in mathematics, physics, or electricity. The operation and design of simple circuits are explained in detail. Emphasis on "how it works" rather than on "why" or theory.

PS111 CURRENT ISSUES IN PHYSICAL SCIENCE
The course considers several timely topics in science, such as the energy crisis, the nuclear dilemma, environmental pollution, space

exploration, the advancing metric system, and the role of technology in our lives. It is intended to familiarize students with some of the significant issues that society faces today.

POLITICAL SCIENCE

A. Collins Jenko, Acting Chairman

Professors Rudsten, Sudhalter, Weiner. Associate Professor Langley. Assistant Professors Balboni, Dowd, Feinstein, Jenko, Klein, Kowalski.

A major in Political Science is open to all interested candidates and leads to the B.A. degree in Political Science. A major is required to complete thirty (30) hours in political science before graduation of which GV101, GV102, GV201, GV202, and GV301 are required, and five (5) other courses in the field. GV103 may be substituted for either GV201 or GV202. All major programs should be planned in consultation with the Department Chairman.

A minor is available for all degree candidates. The minor consists of taking any six courses in Political Science.

The Political Science Department has an Honors Program. Interested students should apply to the Department Chairman.

All courses meet every semester unless otherwise indicated.

GV101 AMERICAN GOVERNMENT

An analysis of the executive, legislative, and judicial branches of the national government, with particular attention to the Constitution, federalism, political parties, and economic and welfare activities.

GV102 COMPARATIVE GOVERNMENT

A comparative study of the governments of Great Britain, France, Germany, and the Soviet Union.

GV103 INTRODUCTION TO POLITICAL SCIENCE

Designed to acquaint the student with the parameters and the methodology of political science. The governing process of different political systems will be analyzed in terms of their structure, organizational behavior and decision making. Special emphasis will be given to certain universal problems common to all politics. This course may be taken in place of GV201 or GV202.

GV201 POLITICAL THEORY I

Covers the major political doctrines held by theorists from Plato to Hobbes. Special attention given to placing each theorist in the proper cultural context.

GV202 POLITICAL THEORY II

Continuation of GV201 emphasizing the political theorists from Hobbes through Lenin, with particular stress on the liberal democrats, the socialists, and totalitarian principles.

GV203 POLITICS OF MODERN AFRICA

A survey of representative African government types, with particular stress on socio-political change, nationalism, duality, nation-building and Pan-Africanism.

GV204 EDUCATION FOR CITIZENSHIP

An examination of the nature of democratic citizenship, and the processes through which one participates in the political culture.

GV205 WOMEN IN POLITICS (Fall)

A study of the changing role of women in politics today. The course will examine today's women in relation to contemporary political issues. How can she achieve her goals through the American political process?

GV206 THE ROLE OF ETHNIC GROUPS IN THE AMERICAN POLITICAL SYSTEM

Prerequisite: GV101. A description and evaluation of how various Caucasian and oriental minority groups have organized to seek political power within America's pluralistic system.

GV220 POLITICS AND THE DELIVERY OF HEALTH SERVICES (Spring)

The objective of this course is to examine the political significance of the demand for some form of national system of health insurance and to analyze the probable impact of these demands on the formulation and implementation of public policy.

GV301 INTERNATIONAL RELATIONS

An analysis of the tangible and intangible elements of national power, the concepts of national interest and the balance of power, and the foreign policies of selected states.

GV302 MASSACHUSETTS GOVERNMENT

Prerequisite: GV101. A seminar in the structure and contemporary problems in state, county, and town governments in Massachusetts. Leading political personalities will address the class. Admission to this course by permission of instructor.

GV303 AMERICAN CONSTITUTIONAL PROBLEMS AND LAW

Traces American constitutional development, and stresses the role of the Supreme Court, the separation of powers, federalism and individual rights.

GV304 POLITICAL PARTIES AND INTEREST GROUPS

The coalition nature of major political parties, their ideology and structure, the role of third parties, political behavior and pressure groups form the core of this course.

GV305 INTRODUCTION TO LAW

A study of the American Legal System through the study of cases in such areas as family, criminal, labor, and administrative law.

GV307 INTERNATIONAL ORGANIZATION (Spring)

The evolution of international organization, the Hague system, the League of Nations, the United Nations, and supranational groups form the major strand of this course.

GV308 AMERICAN FOREIGN POLICY (Fall)

A probe designed to give a comprehensive understanding of the conduct of American foreign policy since 1950, with emphasis on economic, diplomatic, and cultural aspects.

GV309 COMMUNIST BEHAVIOR IN WORLD AFFAIRS (Fall)

An overview of relations between selected members of the communist world: Asian, Latin American, East and West European, and Near Eastern states.

GV310 URBAN GOVERNMENT

Prerequisite: GV101. The politics and administration of United States cities in the context of the federal system, metropolitan problems, and social change.

GV311 UNITED STATES CONGRESS

Prerequisite: GV101. A study of the representative, legislative and oversight behavior and the processes in the Congress.

GV312 THE PRESIDENCY (Spring)

Prerequisite: GV101. Central to this course are the President's role, the tremendous powers held, the advisors necessary for decision-making and the difficulties of achieving the consensus.

GV313 POLITICS OF DEVELOPING AREAS (Alternate Years)

Study of social mobilization and political modernization in selected developing countries of the Near East, Asia, Latin America, and Africa, with special emphasis on political elites, ideologies and economic development.

GV314 CONTEMPORARY POLITICAL THEORIES

An examination of significant political theories in the twentieth century. Particular stress is given to problems of political obligation.

GV315 INTERNAL POLITICS OF EAST ASIA

Study of the internal politics of the Chinese People's Republic, Japan, and other selected nations of the far east.

GV316 PUBLIC ADMINISTRATION

Survey of public administration in the United States, with emphasis on bureaucracy, policy-making administrative power, budgetary process, civil service, and control of administration.

GV317 PUBLIC OPINION AND PROPAGANDA (Fall)

The relationship between public opinion and mass democracy, the news media and public opinion will be analyzed in terms of their political effects, as will democratic and totalitarian propaganda.

GV318 GOVERNMENT AND POLITICS IN THE NEAR EAST (Fall)

Internal developments in Near Eastern countries as well as the tensions between Israel and the Arab states will be scrutinized. The role of the major powers in the area will be probed.

GV319 CIVIL LIBERTIES

Prerequisite: GV101. The basic principles of constitutional liberties in the United States will be linked to current issues of substantive and procedural rights.

GV320 SOVIET FOREIGN POLICY (Spring)

Emphasis is on the behavioral elements in Soviet foreign policy since 1917, with particular attention to policy-making relationships with socialist bloc countries and western and non-aligned nations.

GV321 GOVERNMENT AND POLITICS OF EASTERN EUROPE (Alternate Years)

Emphasis is on the behavioral characteristics of the Eastern European political systems, including problems of interbloc ideological coordination, economic cooperation and national communism.

GV323 STATE AND LOCAL GOVERNMENT

Prerequisite: GV101. Open only to juniors and seniors. A seminar dealing with selected aspects of the relationship of the cities to the states. Students are expected to attend lectures, undertake substantial assigned reading, and complete a research project under the directions of the instructor.

GV324 REGIONAL ORGANIZATION (Fall)

Prerequisite: GV301. A course dealing with the regional organizations such as the North Atlantic Treaty Organization, the European Economic Community, the Organization of American States, the Organization of African Unity, the Commonwealth, the Nordic Council and the Arab League.

GV325 CONTEMPORARY PROBLEMS OF INTERNATIONAL POLITICS (Fall)

Prerequisite: GV301. An application of the basic elements of power and principles of national interest to an analytical examination of the crucial major problems currently confronting states in their political, economic and cultural relations.

GV326 INTERNATIONAL LAW (Spring)

Prerequisite: GV301. A study of the nature, sources, principles, and development of international law and its application and enforcement by national and international tribunals.

GV328 THE FORMATION OF FOREIGN POLICY—A COMPARATIVE STUDY (Spring)

This course will analyze the various ways in which foreign policy is formulated and implemented by various governments. The roles played by interest groups, political parties and public opinion will be studied and discussed.

GV331 PRESIDENTIAL POLITICS I (Spring)

An experimental course in which students will study past and contemporary presidential elections from the best available academic sources. In addition, students will participate actively in various presidential primaries for candidates of their choice; meet prominent public officials, presidential candidates, distinguished authors and news media experts.

GV332 PRESIDENTIAL POLITICS II (Fall)

A continuation of Presidential Politics I, except that concentration will be on the presidential elections.

GV401 PRACTICUM IN FEDERAL ADMINISTRATION

Prerequisite: 9 hours of study in Political Science and permission of the instructor. This course will provide students with an opportunity for supervised administrative experience in a regional office of a United

States government agency. Students will be required to work 15 hours weekly at the agency to which they have been assigned, attend a weekly seminar at the college, and write a report based on their work experience.

GV402 PRACTICUM IN STATE AND LOCAL ADMINISTRATION

Prerequisite: nine hours of study in Political Science and permission of the instructor. This course will provide students with an opportunity of supervised administrative and technical work experience in the offices of state and local governments in the Boston region. Students will be required to work 15 hours weekly at the office to which they have been assigned, attend a weekly seminar at the college, and write a report based on their work experience.

GV403 GOVERNMENT AND POLITICS OF CANADA (Fall)

Introduction to the structure and techniques of the Canadian political process. The study of many problems, such as French separatism, political parties and the relationship of Canada to the rest of the world will form the core of the course.

GV404 LAW, VALUES AND SOCIETY (Spring)

A critical examination of the nature of and relationship describing law, values and societies, the *how* and *why* of choices respecting the values which serve as the basis for the constitution, development, and preservation of societies, legal norms and moral imperatives as well as the character and limits of political and social obligations.

GV410 PUBLIC POLICY AND PLANNING

Prerequisite: GV101. Analysis of public policies from their origins to their implementation. Each term there will be an in-depth study of a specific area of public policy such as transportation, planning, environmental problems, social welfare, national defense, etc.

GV490 SEMINAR IN SELECTED TOPICS

Prerequisites: 18 hours of Political Science courses and permission of instructor. This course deals with research methods. Each student must complete an approved research project.

GV491 INDEPENDENT READING AND RESEARCH

Students taking this course will prepare independent research under the direction of the instructor. Course open to students only by permission of the instructor. *Hours by arrangement.*

PRE-ENGINEERING PROGRAM

Seymour Kass, Ph.D., Director

This is a cooperative program between Boston State College and two universities: the University of Massachusetts, Amherst and Northeastern University. It leads to a B.S. degree in one of the engineering curricula.

Students take the two year curriculum at Boston State College outlined below. Those who complete the program and receive the favorable recommendation of the Pre-engineering Program Committee of the College are guaranteed admission into the third year of an engineering program at the participating institution of their choice.

The University of Massachusetts option requires an additional two years for completion (2-2 format); the Northeastern University option requires three years for completion in its Cooperative Plan of Education, which alternates periods of academic study with periods of full-time employment (2-3 format).

An engineering program is rigorous and demanding. Students who enter it should be well-motivated and will need to have a good facility in mathematics and the physical sciences. Some students will need more than two years to complete the Boston State College component of the program.

Interested students should consult the program director for more information or for an application to enter the program.

OUTLINE OF COURSES FOR PRE-ENGINEERING STUDENTS AT BOSTON STATE COLLEGE WITH TRANSFER TO THE UNIVERSITY OF MASSACHUSETTS, AMHERST, OR NORTHEASTERN UNIVERSITY:

Freshman Year (common to all options)

M252	Computer Sci. I	3	**P111	Intro. to Engineering	2
CH101	Principles of Chem. I	4	CH102	Principles of Chem. II	4
M105	Analytic Geometry	3	M106	Calculus I	4
*E101	English Composition	3	P101	College Physics I	4
Social Science Elective		3	Humanities Elective		3
		16			• 17

Sophomore Year (common to all options)

M205	Calculus II	4	M206	Calculus III	4
P102	College Physics II	4	P201	College Physics III	4

SPECIFIC SOPHOMORE COURSES FOR INDICATED AREAS OF SPECIALIZATION

Required for Chemical Engineers:

CH203	Organic Chem. I	4	CH204	Organic Chem. II	4
CH208	Thermodynamics	3		Humanities Elective	
				or	
			P206	Statics (NU)	3
			E103	Effective Speech	3
		15			18

Required for Civil Engineers:

P206	Statics	3	P207	Mech. of Materials	3
	Social Sci. Elective			Humanities Elective	
	or			or	
EC101	Prin. of Econ. I (NU)	3	EC102	Prin. of Econ. II(NU)	3
E103	Effective Speech	2	***Math Elective		3
		16			17

Required for Electrical Engineers:

P213	Elec. Sys. and Ckt. I	4	P214	Elec. Sys. and Ckt. II	3
	Humanities				
M203	Linear Algebra	3			
	Social Sci. Elective	3	(UMass)		
			or		
			E103	Effective Speech	3
		18			17

Required for Industrial Engineers:

EC101	Prin. of Econ. I	3	M400	Probability	3
EC103	Accounting	3		Humanities Elective	3
M203	Linear Algebra	3	E103	Effective Speech	3
		17			17

Required for Mechanical Engineers:

P206	Statics	3	P207	Mechanics of Materials	3
CH208	Thermodynamics	3		Social Sci. Elective	3
	***Math Elective	3	E103	Effective Speech	3
		17			17

*Requirement may be satisfied by advanced placement on the CEEB test.

**Offered at U Mass, Amherst, in cooperation with Boston State College faculty.

***M203, Linear Algebra, M402, Statistics, or M409, Ordinary Differential Equations.

PSYCHOLOGY

Arthur J. O'Shea, Ph.D., Chairman

Professors Budrose, Conners, Cristiani, Gilbert, Haughey, Koch, Kostick, O'Shea, Shapiro, Stotsky. Associate Professors Calmas, Colgan, Godin, Goodale, Powers, Sobota, Wolkon, Young, Assistant Professors Konstam, Solin.

The psychology department offers a program of study leading to the A.B. degree in psychology.

The psychology major is first of all a scientist — a scientist interested in behavior. The department therefore believes that its psychology majors should receive a thorough preparation and education in the fundamentals of the scientific method and experimental design and analysis. The program in psychology consists of 30 (24 hours for students who entered before September 1975) semester hours which must include all of the following courses: PY101, PY103, PY204, and either PY410, PY470, PY471 or PY490. It is also strongly recommended (but not required) that psychology majors take PY102. Required courses must be taken in the sequential order indicated since each course in the series builds upon the preceding courses. Two or more required courses cannot be taken concurrently. Students should familiarize themselves with the program so that scheduling conflicts will be avoided.

Majors in psychology who are minoring in secondary education are required to take PY202, PY203, ED336PY and ED430PY for their minor. These courses may not be counted toward the major. However, ED430PY may be substituted for PY410, PY470, PY471 or PY490 as long as the student completes *all* other requirements for the major.

All psychology majors are required to register as such with the psychology department in order that an advisor may be assigned to help plan the student's program of study.

A psychology minor is comprised of 21 (18 hours for students who entered before September 1975) semester hours of which only PY101 is required.

Satisfactory completion of PY101 is a prerequisite for all advanced courses.

All courses meet every semester unless otherwise indicated.

PY101 INTRODUCTION TO PSYCHOLOGY

The course covers the fundamentals of the scientific study of behavior.

PY102 ADVANCED GENERAL PSYCHOLOGY 2 L.

Strongly recommended for the major. An introduction to statistics, experimental design, animal behavior, physiological psychology, and sensory processes.

PY103 INTRODUCTION TO STATISTICS

This fundamental course prepares the student to read the research literature in the social sciences, to undertake courses in experimental psychology, and to advance to more sophisticated courses in statistics.

PY201-NU201 DEVELOPMENTAL PSYCHOLOGY I

A systematic integrated investigation of the psychological development of children from infancy to the beginning of adolescence. (Formerly Child Psychology).

PY202-NU202 DEVELOPMENTAL PSYCHOLOGY II

A systematic, integrated investigation of the psychological development of the individual from adolescence through adulthood and old age. This course is a continuation of Developmental Psychology I. (Formerly Adolescent Psychology).

PY203 EDUCATIONAL PSYCHOLOGY

A study of psychological facts and principles fundamental to education, teaching, and personal relationships between teacher and learner.

PY204 GENERAL EXPERIMENTAL PSYCHOLOGY

2 L., 4 S.H.
Prerequisite: PY103. An introduction to experimental method in the scientific investigation of behavior through laboratory experience and report writing.

PY210 CONTEMPORARY ISSUES IN PSYCHOLOGY

An intensive exploration of a selected topic of current interest in psychology for the general student. Topics will vary; lectures and readings appropriate to the issue will be assigned. May not be selected

more than once for credit.

PY220 SOCIAL PSYCHOLOGY

An introduction to the study of behavior in groups and interaction within those groups. Topics such as attitudes, language, group interaction, and role theory are covered.

PY225 LABORATORY IN ATTITUDE DEVELOPMENT TOWARD THE SEXES

Conducted as a small group laboratory, the course is designed to enhance awareness of how behavior is affected by attitudes towards the sexes.

PY230 ORGANIZATIONAL PSYCHOLOGY

A study of the interaction of psychological and structural factors of organizations. Emphasis is placed on the organization as a work-oriented group, its efficiency in doing the work, and on the individual functioning in a work group.

PY233 FEMININE PSYCHOLOGY

This course considers the shaping of individual feminine personality in contemporary American society, and psychosocial conflicts generated in development. Open to students of both sexes.

PY250 PSYCHOLOGY OF DRUG AND ALCOHOL DEPENDENCE

A survey of physical, psychological and sociological factors in drug and alcohol dependence and abuse. A review of physical, psychological and environmental techniques of treatment. Field trips and experience where possible.

PY302 PHYSIOLOGICAL PSYCHOLOGY (Fall 1978)

Prerequisites: PY102 or equivalent. The study of the nervous system, the brain, sensory processes, and various physiological states, and how all of these relate to behavior.

PY312 PSYCHOLOGY OF EXCEPTIONAL (SPECIAL NEEDS) CHILDREN I

Prerequisite: PY201 or 202. PY401 recommended. This course will cover foundation and historical concepts of exceptionality including the psychological aspects of speech defects, impaired vision, crippling disorders, mental retardation, emotionally disturbed children and the gifted.

PY313 PSYCHOLOGY OF EXCEPTIONAL (SPECIAL NEEDS) CHILDREN II (Spring)

Prerequisite: PY312. A continuation of PY312.

PY314 SPEECH AND LANGUAGE DEVELOPMENT (Spring)

Prerequisites: PY201 or PY202, and PY312 or PY313. An intensive clinical presentation of normal developmental processes associated with acquisition of speech and language behavior of children in modern society. Breakdowns in the communication process are also treated.

PY333 INTERRACIAL GROUP EXPERIENCE

An intensive group experience for a small, racially mixed group of students.

PY401 THEORIES OF PERSONALITY

Prerequisites: Nine hours of study in psychology. This course is designed to acquaint the advanced student with the major psychological theories explaining the structure and dynamics of the human personality.

PY402 COGNITIVE DEVELOPMENT

Prerequisite: PY201. An advanced seminar on the development of intelligence in children.

PY403 ABNORMAL PSYCHOLOGY

Prerequisites: Nine hours of study in psychology. This course covers concepts of abnormality, major classifications of behavioral disorders, and their causes, assessment, and treatment.

PY404 PSYCHOLOGY OF THE PUBLIC OFFENDER

Prerequisites: PY201 or PY202, PY403. A study of the etiology of delinquent and criminal behavior with special reference to their psychological sources. "Normal" and pathological offenders and of-

fenses will be studied using all sources of data, including field trips.

PY405 PSYCHOLOGICAL TESTING

This course covers elementary statistical concepts, test standardization, the Stanford-Binet and Wechsler scales, tests of aptitude, achievement, personality, attitudes, and projective methods.

PY406 PERSONNEL PSYCHOLOGY SEMINAR

This course is designed to introduce the student to the work of psychologists in industry. Areas included are industrial selection, management, development, industrial counseling and training.

PY407 HISTORY OF PSYCHOLOGY (Spring 1978)

Prerequisites: Fifteen hours of study in psychology. A study of the historical developments within the science of psychology from the early Greek period to the present day.

PY408 PSYCHOLOGY OF VOCATIONAL DEVELOPMENT

Prerequisites: PY202 and 9 additional hours in psychology. An investigation into the social, psychological, and developmental factors affecting vocational choice.

PY409 PSYCHOLOGY OF LEARNING 2 L.

An intensive study of the principles of learning including classical and instrumental conditioning, reinforcement, extinction, discrimination and verbal learning. Includes laboratory experience.

PY410 PSYCHOLOGICAL RESEARCH SEMINAR

Open only to senior psychology majors. A program of directed study in the formulation of a research problem, the design of an experiment, the analysis of data, the interpretation of the data, and the writing of a report which adequately communicates these procedures.

PY411 PRINCIPLES AND TECHNIQUES OF INTERVIEWING AND COUNSELING

Prerequisites: Twelve hours of study in Psychology. A study of interview and counseling principles and techniques through readings, tape recordings, films and written interview records. Class limit: 15.

PY412 PSYCHOLOGY OF EXCEPTIONAL CHILDREN

Prerequisite: PY201. This course covers the characteristics, problems, and educational provisions for the mentally retarded, emotionally disturbed, perceptually handicapped, brain damaged, gifted, deaf, blind, and those with speech defects.

PY415 PSYCHOLOGY OF CREATIVITY

A review of current research in the general area of creativity. Emphasis is on experimental investigation and empirical findings.

PY420 THE ORIGINS AND DEVELOPMENT OF SEX DIFFERENCES

Biological and psychological research and theories about the nature and origins of male-female differences from conception through childhood.

PY430 SENSATION AND PERCEPTION (Spring 1979)

The anatomy, psychophysiology, and psychophysics of vision, audition, olfaction, gustation, and the somesthetic senses.

PY440 COGNITION (Fall 1979) 2 L.

A survey of approaches to the question: What is thinking? Topics include dreaming; imagery; creative thinking; computer simulation; language and thought.

PY442 MOTIVATION 2 L.

The study of historical and contemporary answers to the question: What makes organisms active?

PY470 PRACTICUM IN PSYCHOLOGY

To provide the advanced student with an opportunity to obtain practical experience in a field situation.

PY471 EXTENDED FIELD EXPERIENCE AND PRACTICUM IN PSYCHOLOGY 15 S.H.

Open only to senior psychology majors. Enrollment necessitates 126 semester hours for the degree. Students are assigned to participate in field work for an entire semester. Only 3 S.H. may be applied to major.

PY490 PSYCHOLOGY HONORS

Elected in the final semester of the senior year with consent of the Honors Committee. Students must write an Honors thesis of acceptable quality (grade of A or B) based on original research in order to graduate with Honors.

ED336P METHODS OF TEACHING PSYCHOLOGY IN THE SECONDARY SCHOOL 2 L.

Prerequisites: ED233 and completion of 21 semester hours in psychology. This course is designed to meet the objectives and principles essential in the teaching of psychology.

ED340P STUDENT TEACHING AND SEMINAR 6 S.H.

Prerequisites: PY202, PY203, ED233, ED336PY. A laboratory course of one-half semester's duration providing full-time student teaching in public secondary schools.

ED440P STUDENT TEACHING AND SEMINAR 12 S.H.

Prerequisites: PY202, PY203, ED233, ED336PY. A laboratory course of one semester's duration providing full-time student teaching in public secondary schools.

PUBLIC SERVICE

Alan R. Balboni, Ph.D., Acting Chairperson

Francis W. McCarthy, Ed.D., Fire Science Advisor

Associate Professor Berkley. Assistant Professor Dilday

The Bachelor of Science in Public Service is an upper division program in which majors or minors are completed during the junior and senior years, preceded by the completion of the general education and pre-requisite requirements in the freshman and sophomore years.

It offers major or minor concentrations in fire science, law enforcement, or public administration. Its objectives are to provide current and future practitioners in these fields with a professional education leading to middle management or professional specialist positions, to prepare students for related positions in government service, and in private business and industry, and to provide a background for graduate study in these areas. It combines a general education with courses in a professional specialty, in management, and in supporting disciplines.

The program also encourages transfers from community colleges and other accredited institutions.

Majors and minors in the public service program are invited to visit the Public Service Office to assure the formulation of an academic program meeting the student's career objectives.

Majors in law enforcement, fire science, or public administration must complete a minimum of 30 semester hours of academic work as specified below (All courses earn three semester hours credit).

REQUIRED CORE

PB301 Theory and Principles of Management

PB302 Government Fiscal Policies and Budget Control

PB401 Collective Bargaining

PROFESSIONAL CONCENTRATION

Law Enforcement

LE301 Introduction to Law Enforcement

LE302 Criminal Law I

LE303 Criminal Law II

*LE311 Criminalistics I

LE312 Criminalistics II

OR

LE304 Criminal Evidence and Procedure

Fire Science

FS301 Introduction to Fire Science

FS318 Material Science I*

FS319 Materials Science II*

FS309 Mechanics & Hydrodynamics*

FS310 Heat and Calorimetry*

Public Administration

GV316 Public Administration

GV317 Public Opinion and Propaganda

*GV323 State and Local Government or GV302
Massachusetts Government

GV402 Practicum in State and Local Administration or
GV401 Practicum in Federal Administration

*GV410 Public Policy and Planning or GV310 Urban
Government

SUPPORTING DISCIPLINES

Two courses selected from designated offerings of the departments or programs of Economics, History, Management, Mathematics, Political Science, Psychology, Regional Studies, and Sociology above the introductory level*. Two departments must be represented.

A minor in Law Enforcement, Fire Science, or Public Administration requires the completion of 18 semester hours of academic credit, including 12 semester hours in one of the professional concentrations (above) and 6 semester hours in the supporting disciplines (above).

Students who have successfully completed a major in these fields at a community college are granted an automatic minor.

A contract minor, composed of a series of interdepartmental courses, may also be negotiated with Public Service advisors.

**Prerequisites for these courses can be met by a careful selection of General Education requirements.*

All courses meet every semester unless otherwise indicated.

PB301 THEORY AND PRINCIPLES OF MANAGEMENT

The basic management functions of planning, organizing, directing, controlling are examined from theoretical and applied perspectives. Alternative management styles are reviewed for their effects on motivation, morale and decision-making in a variety of public sector organizations.

PB302 GOVERNMENT FISCAL POLICIES AND BUDGET CONTROL

Local, state and federal government fiscal policy, procedures and techniques are reviewed. Budget cycles, regulations and decision-making processes are analyzed for their impact on public program planning and control.

PB401 COLLECTIVE BARGAINING

Collective bargaining processes and the nature of the union-management relationship in both private and public sectors of the economy are reviewed. Bargaining, negotiation, and settlement issues and strategies are examined.

PB490 SPECIAL TOPICS — PUBLIC SERVICE

Prerequisites: Completion of 21 semester hours from required Public Service major courses, and 90 semester hours toward the baccalaureate degree. Selected topics from contemporary Public Service issues in governmental, social agency and other public service organizations.

PB492 INDEPENDENT STUDY-RESEARCH

Prerequisites: Completion of a minimum of 21 semester hours from required Public Service major courses and 90 semester hours toward the baccalaureate degree. Open only to seniors by permission and agreement of the concerned faculty member and program director. Independent study or research on a topic determined by the student in consultation with the supervising faculty member or program director.

LAW ENFORCEMENT

LE301 INTRODUCTION TO LAW ENFORCEMENT

This course is designed to acquaint the student with the historical and philosophical background to law enforcement in the United States, the various agencies established to regulate criminal and non-criminal activities of the citizens, and recent trends.

LE302 CRIMINAL LAW I

This course introduces the student to the basics of criminal law, its development, past and present elements of crimes, the law of arrest and constitutional limitations on evidence.

LE303 CRIMINAL LAW II

Prerequisite: LE302. This course presents an in-depth study of criminal law and related constitutional considerations, as well as the presentation of cases by the prosecution and the defense.

LE304 CRIMINAL EVIDENCE AND PROCEDURE

Prerequisites: LE301-302. The rules of evidence and related procedures applicable to law enforcement officers involved in the prosecution of criminal cases. Topics will include: recent constitutional decisions, methods of proof, evidence, search and seizure, confessions, admissions, self-incrimination, presumptions, opinions, credibility.

LE311 CRIMINALISTICS I (Fall)

Prerequisite: CH107-108 or BI101-102 or their equivalents. Current technique in the field of Blood and Body Fluids, Narcotics, Fingerprints and Firearms are surveyed and demonstrated. Experts are invited to lecture in pertinent topics.

LE312 CRIMINALISTICS II (Spring)

Prerequisite: LE311 or its equivalent. Current techniques in the field of explosives, toxicology, documents, and analysis of particulates are surveyed and demonstrated. Emphasis is placed on Crime Scene, searching and evaluation of evidence.

FIRE SCIENCE

FS212 EMERGENCY MEDICAL TECHNICIAN 6 S.H.

This course will provide the necessary classroom and hospital training to permit the student to take the national certificate examination as Emergency Medical Technician.

FS301 INTRODUCTION TO FIRE SCIENCE

This course surveys the philosophy and history of fire protection and safety; history of loss of life and property by fire; review of municipal fire defenses; study of organization and function of federal, state, and private fire protection and safety agencies and a survey of professional fire protection and safety career opportunities.

FS309 MECHANICS AND HYDRODYNAMICS (Fall)

Prerequisites: P101 or P103; and M103. Selected topics in mechanics, principles of hydrostatics and hydrodynamics.

FS310 HEAT AND CALORIMETRY (Spring)

Prerequisites: P101 or P103; and M103. Heat and thermal transport, kinetic theory, thermal behavior of materials, elements of first and second laws of thermodynamics.

FS318 MATERIALS SCIENCE I (Fall)

Prerequisite: CH107-108. The study of atomic and molecular structure, bonding of metals, plastics and other structural materials.

FS319 MATERIALS SCIENCE II (Spring)

Prerequisite: FS318 or equivalent. Practical and theoretical considerations related to the chemistry of explosive and toxic materials; safety considerations related to the transportation, handling and storage of said chemicals.

REGIONAL STUDIES

Michael G. Mensoian, Jr., Ph.D., Chairman

Professors J. Jones, Mensoian, Spayne. Associate Professors Duncan, Looney, Assistant Professors Brewer, Gelpke, Genes, Nellis.

The Department of Regional Studies provides students with a flexible, integrated approach to learning and research in the man-environment-interaction field leading to a B.A. or B.S. degree.

Students may develop programs having as goals teaching careers, entrance to graduate schools, or positions with private or public agencies. The Department encourages students to formulate individualized programs of study to maximize meaningful learning and research experiences consonant with their academic-professional goals.

Any one of the regional studies fields of concentration may be elected as a major or minor. However, students in the secondary education teacher-training program must elect their major from either Regional Cultural Studies (leading to certification in geography) or Regional Physical Studies (leading to certification in earth science).

The fields of concentration are:

Regional Cultural Studies (B.A.)

Regional Physical Studies (B.S.)

Regional and Urban Planning Studies. (B.A.)

Each program, developed under departmental guidance, must meet the following criteria:

- (a.) Completion of a designated 100 level course (3 semester hours credit) and either RS401 Field Work, RS450 Seminar, RS475 Urban Seminar, or RS490 Special Topics (3 semester hours credit).
- (b.) A minimum of 50 percent of the total number of semester hours required for the major or minor must be completed within the Department of Regional Studies. For those students in the secondary education teacher-training program majoring in either Regional Cultural or Regional Physical studies, a minimum of 30 semester hours credit in the concentration must be completed within the Department of Regional Studies.
- (c.) The Program of Study must represent a balanced, integrated learning-research experience.

Students in the teacher-training program enrolled in the Department meet Commonwealth of Massachusetts and NASDTEC teaching certification requirements in earth science or geography.

All courses meet every semester unless otherwise indicated.

RS101 GEOLOGY I

An introductory study of the earth's composition and the dynamics of change through natural processes.

RS102 GEOLOGY II

Historical development of continents and ocean basins, development of life, and consideration of some of the geological problems presently facing utilization. (RS101 strongly recommended.)

RS125 ENVIRONMENTAL SYSTEMS

Man's natural environment is studied utilizing the tools of geographic inquiry through identification and evaluation of current environmental conditions and problems.

RS150 WORLD REGIONAL GEOGRAPHY (Fall)

A substantive course applying basic geographic understandings and concepts to selected world regions.

RS151 CULTURE SYSTEMS

This course will consider man within the context of his culture in space and time. His reciprocal relationship with the natural environment will be examined in terms of landscape development, environmental use, and cultural change.

RS152 WORLD ECONOMIC GEOGRAPHY

The geography of circulation, industry, agriculture, natural resources and conservation will be presented by utilizing selected regions and models.

RS175 URBAN GEOGRAPHY

An introduction to the factors governing the size and distribution of cities in the U.S. followed by an introduction to the internal structure of the city with specific examples drawn from the Boston metropolitan area.

RS201 MINERALOGY (Fall)

4 L., 4 S.H.

Prerequisite: RS101. This course deals with concepts, descriptions and determinative procedures in Mineralogy. Basic concepts in crystallography, mineral classification, chemical mineralogy and specific rock-forming, mineral associations are presented.

RS202 GEOMORPHOLOGY (Fall)

Prerequisite: RS101 or RS102. An in-depth study of the surface features of the earth with emphasis placed on the New England geomorphology.

RS212 GLACIAL AND QUATERNARY GEOLOGY (Spring)

A study of the last million years of earth history with respect to the ice age. Causes of ice ages, ice movement and its effects, comparison of Glacial events of North America with Glacial events throughout the world, and current investigations concerning ice will be discussed.

RS225 WEATHER AND CLIMATE

The elements of weather and climate will be studied in detail followed by a systematic consideration of world climatic regions.

RS226 OCEANOGRAPHY I

A correlation of the geological, physical and chemical aspects of the sea.

RS227 OCEANOGRAPHY II

The biological, geographical and recreational aspects of the sea will be explored.

RS250 REGIONAL GEOGRAPHY OF ANGLO-AMERICA (Spring)

A regional study of the physical, cultural, political and economic environment of the peoples of Anglo-America with an emphasis on urbanized regions.

RS251 REGIONAL GEOGRAPHY OF LATIN AMERICA (Spring)

A regional study of Middle America and South America. Emphasis is upon the physical environment and the cultural, economic, and political conditions that exist and are in the process of development.

RS252 REGIONAL GEOGRAPHY OF EUROPE (Spring)

The physical, cultural, political, and economic features of Europe and an examination of urban areas.

RS253 GEOGRAPHY OF THE MIDDLE EAST AND NORTHERN AFRICA (Fall)

This course will consider the cultural and physical characteristics of those countries extending from Mauritania-Morocco to Afghanistan. Emphasis will be placed on the historical development and Arabization of the region, strategic significance, and current socio-economic problems.

RS254 REGIONAL GEOGRAPHY OF SOUTH AND EAST ASIA (Fall)

This course provides a survey of the physical, cultural, and economic origins of Asia. This background is then utilized to provide an understanding of the major social, economic and political problems facing this continent.

RS260 CARTOGRAPHY (Fall)

The art and science of the presentation of earth patterns in the media of maps, cartograms and other cartographic devices. Laboratory experiences introducing symbolism, handling of cartographic tools, lettering techniques, and fine drawing.

RS275 URBAN LAND USE (Spring)

An analysis of the patterns of land use within the urban area and the factors influencing the distribution of specific uses. Students will be required to undertake land use surveys within specified sections of Boston where such surveys can contribute to the solution of community problems.

RS290 HISTORICAL GEOGRAPHY

A consideration of man's settlement in the Anglo-American region with the different techniques of successive cultural groups, and the landscape they have occupied and formed.

RS301 GEOLOGY OF NORTH AMERICA (Spring)

Prerequisites: RS101 or RS125. A general survey of each province of North America, including the geomorphology, structure and human environment of each region.

RS302 PETROLOGY (Spring)

4 L., 4 S.H.

An examination of the physical and chemical environment in which rocks are formed and exist.

RS310 GEOSCIENCE SEMINAR (Fall)

A seminar to explore current research in Geology, Oceanography and Geography. Students and departmental faculty will participate in the presentation and discussion of relevant topics.

RS324 COASTAL ZONE MANAGEMENT

This course will be concerned with coastal environmental problems and their solution. Emphasis will be placed on local issues such as marine resource management, recreational development and problems arising in the public and private sectors.

RS325 COASTAL CLIMATOLOGY (Spring)

Prerequisites: RS125 or RS225. This course will study the classification of climate, the ocean-atmosphere relationships, the specific effect of the ocean on the climate of Massachusetts, as well as local research topics.

RS326 COASTAL GEOMORPHOLOGY (Fall)

Prerequisites: RS226. A course designed to teach the student the classification, process, features and mapping of coastlines. Emphasis will be placed on local shorelines.

RS327 BIOGEOGRAPHY (Spring)

An ecological perspective of the environmental relationships of living organisms; their origin, distribution, evolution, adaptation and association.

RS350 GEOGRAPHY OF UNDERDEVELOPED NATIONS (Fall)

This course will classify and evaluate the physical and cultural resource potential of the world's underdeveloped nations.

RS351 WORLD POPULATION PATTERNS

This course will acquaint the student with the basic principles underlying the distribution of man. The impact of economic, social and political factors on the density, composition, migration and other significant aspects of population will be studied.

RS352 POLITICAL GEOGRAPHY (Fall)

The influence of the geographic factors — physical and cultural — upon the development of states and their external relations. The geographic basis of power, internal and international tensions, and major writings in the field will be considered.

RS355 GEOGRAPHY OF TRANSPORTATION

Geographic factors in the location and development of transportation networks as they relate to the movement of goods and people.

RS360 CARTOGRAPHY II (Spring)

Practical experience in the use of advanced cartographic techniques and equipment in the production of maps and graphic materials. Aerial photographs and their uses will be analyzed as a major tool in remote sensing.

RS374 INTRODUCTION TO URBAN HOUSING

Evaluation of current urban housing conditions in a variety of communities including the operation of the housing market, effect of public interventions and codes, taxation, private financing, new construction and rehabilitation. Federal efforts at affecting the housing market are also evaluated.

RS375 URBAN PLANNING

Prerequisite: RS175. The historical and contemporary practices in city planning and development of methodology and techniques for analysis of today's planning.

RS376 REGIONAL PLANNING (Fall)

Prerequisite: RS125 or RS275. This course will examine the geographical theories and problems involved in the spatial development of a region.

RS377 URBAN ENVIRONMENTAL PROBLEMS (Spring)

Emphasis is on the identification and analysis of environmental problems generated by the process of urbanization. Lectures and discussion will involve student research and guest lecturers.

RS378 RESOURCE MANAGEMENT

An in-depth study of environmental impacts of development on the resource base utilizing geographic tools and concepts. Emphasis on Massachusetts.

RS379 HEALTH FACILITIES PLANNING

The planning of health facilities based upon acceptable planning

theories and case studies.

ED336RS METHODS OF TEACHING GEOGRAPHY AND EARTH SCIENCE IN THE SECONDARY SCHOOLS 2 L.

Prerequisite: ED233 or ED240. Emphasis will be placed upon ESCP and Project Geography materials and methods as well as innovations and recent developments.

RS401 FIELD METHODS

By permission of the instructor. This course is designed principally to increase the student's awareness of the advancements being made in the discipline, formulation of problems, hypothesis, measurements and models in a field work setting. Fall Term: Regional Physical students. Spring Term: Regional and Urban Planning students.

RS405 STRUCTURAL GEOLOGY

Prerequisite: RS101. Study and interpretation of rock structures and analysis of the mechanics of rock formation.

ED430RS STUDENT TEACHING AND SEMINAR

6 S.H. or 12 S.H.

Prerequisites: PY203, PY202, ED233 or ED240, ED336. A laboratory course of one-half semester or one semester's duration providing full-time student teaching in public secondary schools. The seminar is concerned with topics such as professional ethics, school records, securing a teaching position, current trends in education, and in-service professional growth.

ED440 STUDENT TEACHING AND SEMINAR 12 S.H.

See description under Secondary Education.

RS450 SEMINAR (Fall)

A study of the philosophy and research developments within the regional studies field.

RS455 PROBLEMS IN LATIN AMERICA (Fall)

This course will combine lectures and independent student research and presentation on relevant geographic, socio-economic, and demographic problems experienced by Latin American countries.

RS475 URBAN SEMINAR (Fall)

Research papers pertaining to the student's area of interest and pertinent to selected problem areas will be written under the direction of staff members. Research papers will be presented and defended before the seminar students and faculty.

RS490 SPECIAL TOPICS

A course stressing research topics within the regional studies field under the direction of individual faculty members. By departmental permission. Application forms available in department office.

RS499 PRACTICUM

6 S.H.

A work program opportunity for qualified departmental majors to obtain practical experience in the field of their interest and training. The student will submit a critique of experience. By departmental permission. Application forms available in department office.

SECONDARY EDUCATION**Herbert Malick, Ph.D., Chairman**

Professors Clarke, Fitzpatrick, Hanley, Malick, R. McCarthy, Santosuoso. Associate Professors, Finn, Grinnell, Luciano, Murphy, Natale. Assistant Professors Barry, Nectow, Ryan, Traverso.

The minor in Secondary Education consists of twenty-one (21) academic hours as delineated below plus the student teaching experience.

Optional for students who matriculated before August 31, 1976. These students may conform to the requirements listed in the Boston State College catalogue prior to the academic year 1976-1977, (but not before the year of matriculation) or to the requirements listed below, or to any combination thereof approved by the Chairman of the Department of Secondary Education.

Required for the completion of the Minor in Secondary Education:

- a.) One (1) course each from blocks I-VI (listed below)
- b.) One (1) additional course from any of blocks I-VII
- c.) Student Teaching (see below for prerequisites)

Block I

PY202 Developmental Psychology II*

Block II

- ED233 Procedures for Teaching in the Secondary School (PY202 must be taken before or concurrently)
- ED240 Methods & Materials in the Urban Classroom (PY202 must be taken before or concurrently)

Block III

- ED337 History & Principles of Secondary Education
- ED356 Values Clarification
- ED238 Introduction to Urban Education

Block IV

- ED244 Audio-Visual Media in Education
- ED342 The Role of the Computer in Education
- ED245 Production of Audio-Visual Instructional Media
- ED341 Improved Reading Skills in the Secondary School

Block V

- ED334 Curriculum of the Secondary School
- ED339 Curriculum of the Urban School

Block VI

- ED431 Tests & Measurements (This course is not required of psychology majors who have successfully completed PY103 Introduction to Statistics and PY405 Psychological Measurements. Students in this category may choose any other course in Education with the approval of the Chairman of the Department of Secondary Education.)
- ED354 Performance Objectives

Block VII

- ED301 Alternative Education
- ED302 Teaching Special Needs Students in Regular Middle and Secondary School Classroom
- ED335 The Adult as a Learner
- ED336 Methods of Teaching (the major subject) in the Secondary School
- ED338 Field Experience in Education Practicum
- ED340 Directed Study in the Field of Secondary Education
- ED344 Law Enforcement Agencies and Education
- ED351 Selection and Utilization of Curriculum Materials and School Library Resources in the Secondary School
- ED357 Valuing Inquiry and the Communication Process
- LM410 Methods and Materials for Bilingual Education and FLES

**The prerequisites for this course can be met by a careful selection of General Education requirements.*

Students who matriculated at Boston State College before September 1, 1974 may add PY203, Educational Psychology, to block VII without permission of the Chairman of the Department of Secondary Education.

Students who prefer a more intensive training in the area of Urban Education should elect ED238, ED339 and ED240.

Student Teaching

ED430 Student Teaching and Seminar (6semester hours). Optional for students who matriculated *before* September 1, 1973. Prerequisites: PY202, ED233, or ED240, ED336, plus at least one course from two additional blocks

OR

ED440 Student Teaching and Seminar (12 semester hours). Optional for students who matriculated *before* September 1, 1973. Required of students who matriculated *after* September 1, 1973. Prerequisites: PY202, ED233, or ED240, plus three additional courses from three additional blocks.

The Professional Semester

The professional semester is defined as a semester during which the student devotes an entire semester to the completion of those courses necessary for his/her professional preparation.

An entire semester devoted to the student teaching experience (ED440 Student Teaching, 12 semester hours), plus the completion of one 3 credit course offered by the department. The specific concomitant course is to be determined after consultation with a member of the Department Counseling Committee.

Reading and Study Skills

The Reading and Study Center serves Boston State College students in two ways. First, the center offers individual counseling in studying and reading problems. Second, the center offers two (three semester hour) courses in reading and study skills for the student who needs help in performing college tasks more quickly and effectively.

RE101 TECHNIQUES OF READING AND STUDYING

This course is designed to provide instruction and practice in approaching reading and study tasks; increasing rate of comprehension; improving organizational and recall skills; notetaking from lectures and textbook material; study techniques and library skills.

RE102 ADVANCED TECHNIQUES OF READING AND STUDYING

Prerequisite: RE101. This course is designed to provide a continuation of the reading and study techniques developed in RE101 with an emphasis on the application of these skills; and more advanced techniques of reading and analyzing books and periodicals and methods of studying textbooks..

ED201 CRITICAL ISSUES IN AMERICAN EDUCATION

Analyzes contemporary problems and issues in American education. Principle focus will be given to such issues as: goals, fiscal responsibility, structure and operation of public and private education at local, state, and federal levels, and community oriented issues.

ED233 PROCEDURES FOR TEACHING IN THE SECONDARY SCHOOL

2 L.

(Formerly ED333) Prerequisites: PY202 (may be taken concurrently). This course is designed to provide students with an overview of all aspects of teaching in the secondary school. Emphasis is placed on the methods and technology of teaching with special attention given to innovative methods of promoting learning and the role of the teacher in establishing a favorable setting for learning. Two hours a week in practicum.

ED238 INTRODUCTION TO URBAN EDUCATION

2 L.

This course is designed to provide practicum experience in the urban environment through visits to inner-city agencies, family centers, and selected urban schools. Topics to be discussed will include housing conditions, the family, community interactions, etc. Two hours a week in practicum.

ED240 METHODS AND MATERIALS IN THE URBAN CLASSROOM

2 L.

This course focuses on the methods and technology of teaching with special reference to the urban classroom. Two hours a week in practicum.

ED244 AUDIO-VISUAL MEDIA IN EDUCATION

This course emphasizes the effective use of various audio-visual media as they influence the learning process.

ED245 PRODUCTION OF AUDIO-VISUAL INSTRUCTIONAL MEDIA

Prerequisites: ED244. Involves the planning and production of a multi-media instructional kit which includes: slide-magnetic tape, single concept film, transparencies, photographs and three dimensional display. Each student will prepare such materials to fit his specific teaching area.

ED256 VALUES CLARIFICATION

Opportunities are offered to participate in values clarification strategies and to learn practical ways to use them as on-going self growth skills and as tools in a profession.

ED301 ALTERNATIVE EDUCATION

A study of the objectives, teaching strategies and the psychological and philosophical foundations of alternative education.

ED302 TEACHING SPECIAL NEEDS OF STUDENTS IN REGULAR MIDDLE AND SECONDARY SCHOOL CLASSROOMS

This course will introduce students preparing to teach in the middle and secondary classroom to methods of instruction which may be used in adapting the regular classroom program to the needs of the student with special needs as defined in Chapter 766 of the acts of the Commonwealth of Massachusetts in 1972.

ED334 CURRICULUM OF THE SECONDARY SCHOOL

A survey of the essential features, methods and techniques of the secondary school curriculum and the use of specific materials in the major and minor fields of student concentration as they pertain to curriculum. Also deals with problems and issues in present day curriculum construction and relationship of secondary school curricula to American society.

ED336BI METHODS OF TEACHING BIOLOGY IN THE SECONDARY SCHOOL 2 L.

Prerequisites: ED233 or ED240. This course includes a consideration of the aims and principles involved in the teaching of biology.

ED336E METHODS OF TEACHING ENGLISH IN THE SECONDARY SCHOOL 2 L.

Prerequisites: ED233 or ED240. This course includes a consideration of the principles and aims involved in the teaching of grammar, composition, and literature.

ED336L METHODS OF TEACHING MODERN LANGUAGES IN THE SECONDARY SCHOOL 2 L.

Prerequisites: ED233 or ED240. This course includes a consideration of the principles of language learning along with the methods and materials for teaching modern languages.

ED336M METHODS OF TEACHING MATHEMATICS IN THE SECONDARY SCHOOL 2 L.

Prerequisites: ED233 or ED240. This course includes a consideration of the aims and principles involved in the teaching of mathematics.

ED336PE METHODS OF TEACHING PHYSICAL EDUCATION IN THE SECONDARY SCHOOL 2 L.

Prerequisites: ED233 or ED240. This course includes the principles and techniques specific to the teaching of physical education.

ED336PY METHODS OF TEACHING PSYCHOLOGY IN THE SECONDARY SCHOOL 2 L.

Prerequisites: ED233 or ED240 and the completion of 21 semester hours in psychology. This course is designed to meet the objectives and principles essential in the teaching of psychology.

ED336RS METHODS OF TEACHING GEOGRAPHY AND EARTH SCIENCE IN THE SECONDARY SCHOOL 2 L.

Prerequisites: ED233 or ED240. Emphasis will be placed on ESCP and Project Geography materials and methods as well as innovations and recent developments.

ED336SC METHODS OF TEACHING SCIENCE IN THE SECONDARY SCHOOL 2 L.

Prerequisites: ED233 or ED240. This course includes a consideration of the aims and principles involved in the teaching of astronomy, chemistry, geology and physics.

ED336SS METHODS OF TEACHING SOCIAL STUDIES IN THE SECONDARY SCHOOL 2 L.

Prerequisites: ED233 or ED240. This course includes a consideration of the aims and principles involved in the teaching of history, government, economics, and sociology.

ED337 HISTORY AND PRINCIPLES OF SECONDARY EDUCATION

An examination of the historical foundations of secondary education in

the United States and a critical analysis of recurrent issues in the history and philosophy of education.

ED338 FIELD EXPERIENCE IN EDUCATION PRACTICUM

Everyday programs in secondary schools and other educational agencies provide varied observatory and participatory experiences for students interested in secondary education. Analysis of pupil-teacher interactions, study of educational agencies, and volunteer services, informs the future educator and provides him with a wealth of different kinds of advantages not usually enjoyed in the student teaching experience.

ED339 CURRICULUM OF THE URBAN SCHOOL 2 L.

A survey of the basic philosophical, psychological, and sociological considerations underlying modern curriculum development. Students will have an opportunity to evaluate existing curricular designs in various urban communities in and around the Boston area. Students must keep one morning or afternoon free for visits to urban schools. Two hours a week in practicum.

ED340 DIRECTED STUDY IN THE FIELD OF SECONDARY EDUCATION

Prerequisites: Consent of the Department Chairman. Students electing this course will complete an assignment of their own choice in the area of educational research. There will be no formal class sessions, but students will be expected to meet with their advisors by appointment.

ED341 IMPROVED READING SKILLS IN THE SECONDARY SCHOOL

Designed to meet the needs of future secondary teachers in all content areas. Review of skills and strategies for teaching reading skills separately and within content areas. Evaluation of current instructional and testing materials; techniques for grouping students for reading instruction; devices for monitoring student performance through a sequence of skills.

ED342 ROLE OF THE COMPUTER IN EDUCATION (Spring)

A study of computer equipment, languages and applications. Students will explore the historical development of the computer and develop an awareness of systems analysis data, management techniques and related peripheral equipment.

ED344 LAW ENFORCEMENT AND PUBLIC EDUCATION

This course will address itself to the relationships which exist between law enforcement agencies and public education. The possibility of new helping relationships involving courts, community and supportive agencies, and public schools will be explored.

ED351 SELECTION AND UTILIZATION OF CURRICULUM MATERIALS AND SCHOOL LIBRARY RESOURCES IN THE SECONDARY SCHOOL (Spring)

Prerequisites: ED233 or ED240, or permission of department chairman. A thorough investigation of basic curriculum materials in the student's special area of concentration. Secondary creative materials will also be examined. Book selection, textbook theory, bibliotherapy, interest-readability levels, and school library standards and practices will also be emphasized.

ED354 PERFORMANCE OBJECTIVES

This course is oriented toward the concepts of teacher accountability and the writing of educational objectives in performance terms.

ED355 THE ADULT AS A LEARNER

Introduction to the field of adult education with special attention given to the adult as a learner. The course will cover such topics as the differences between adult and youth learners, the clientele of adult education, and psychological factors of the adult which affect his learning.

ED356 VALUES CLARIFICATION

Opportunities are offered to participate in values clarification strategies and to learn practical ways to use them as on-going self growth skills

and as tools in a profession.

ED357 VALUING INQUIRY AND THE COMMUNICATION PROCESS

Students will learn to use the values clarification process as a personalized tool for building interpersonal communicative systems for self growth and group development.

ED364 REFERENCE AND BIBLIOGRAPHY SOURCES IN THE SCHOOL LIBRARY

Prerequisites: EL362 or ED351. A study and evaluation of basic reference sources and bibliographical tools used in the school library. Magazines, newspapers and information files will also be surveyed. Chief emphasis will also be placed upon the philosophical, organizational, and administrative aspects of research techniques and reference services.

ED366 CLASSIFICATION AND CATALOGING OF PRINT AND NON-PRINT INSTRUCTIONAL MATERIALS

A discovery of the fundamentals of classification and descriptive and subject cataloging. Special problems in the comparative study of Dewey, Library of Congress and other classification codes will be covered. Special attention will be given to non-print materials, serial publications, and technical processing operations.

ED430 STUDENT TEACHING AND SEMINAR 6 S.H.

Prerequisites: (see block listing). A laboratory course of one-half semester's duration providing full-time student teaching in public secondary or middle schools. The seminar is concerned with fresh topics such as professional ethics, school records, securing a teaching position, current trends in education, and in-service professional growth.

ED430BL STUDENT TEACHING AND SEMINAR IN BILINGUAL EDUCATION

Prerequisite: ED430FL. A laboratory course of 1/2 semester's duration providing full time student teaching in public secondary or middle schools as part of the Bilingual Education Program. This course, in addition to ED430FL, is required of students applying for certification in Bilingual Education.

ED431 TESTS AND MEASUREMENTS

Theory and practice of measurement and evaluation in the secondary school. This course will examine standardized and teacher-devised instruments; individual and group measurement of achievement and intelligence; introductory statistics as they pertain to tests and measurements; marking and grading.

ED440 STUDENT TEACHING AND SEMINAR 12 S.H.

Prerequisites: (see block listing). Includes all material listed under ED430 (see above). This course, however, provides more student-teacher experience and leads to greater in-depth understanding than does ED430.

ED462 ORGANIZATION AND ADMINISTRATION OF THE SCHOOL LIBRARY MEDIA CENTER

An overview of library management principles with special regard to objectives, physical plant, staffing, scheduling, book selection, policies and acquisition. Techniques for relating the library to the total school program as well as case study techniques will be investigated.

SOCIOLOGY

Elizabeth Useem, Ed.D., Chairperson

Associate Professors Ecklein, Useem. Assistant Professors Barry, Disch, Mandell, Margolis, Meymand, Normand.

Sociology as a major is open to all degree candidates. Majors in sociology must complete 30 semester hours in sociology / anthropology, including the required courses: SO201, SO202, and *either* SO204 or SO209. Majors in Sociology are awarded the B.A. degree.

A minor in sociology, available for all degree candidates, consists of 21 semester hours in sociology / anthropology, including the required courses: SO201 and SO202.

A specialization in social work is available to sociology majors, and requires in addition to SO201, SO202, and SO204 *or* SO209, SO250, SO251, SO252, and SO253.

All courses with the exception of SO211, SO215 and SO220 will require the prerequisites SO201.

All 200 courses can be entered by the student if the instructor waives the prerequisite requirement SO201.

All courses meet every semester unless otherwise indicated.

SO201 INTRODUCTION TO SOCIOLOGY

This course provides a survey both of sociological concepts and of basic theoretical perspectives. Applications and examples are drawn mainly from American society.

SO202 HISTORY OF SOCIOLOGICAL THEORY

A survey of major sociological theories and theoretical perspectives from the dawn of the industrial revolution up to the present.

SO203 POWER AND PRIVILEGE IN AMERICA (Fall)

This course will focus on the analysis of the contemporary class system in the United States. It will examine theories and research in social class and other forms of social differentiation.

SO204 QUANTITATIVE METHODOLOGY (Fall)

This course is designed to provide the student with an introduction to "hard" methods, including an introduction to statistics, the construction of research designs, and the various types of interviewing and questionnaire construction. The course will focus on a field research project to be constructed and carried out by the student.

SO205 CRIME AND DELINQUENCY (Fall)

Description and analysis of causes, contexts, effects, and correctional programs for "delinquents" and "criminals." Attempts to answer the question: Who is the criminal?

SO206 RACE RELATIONS (Fall)

An intensive examination of racial conflict, interracial cooperation and racism. The course will examine various theoretical perspectives on race relations, as well as historical and contemporary racial problems.

SO207 CULTURE AND PERSONALITY (Spring)

This course focuses on interrelationships between social structure, culture, and personality as applied mainly to contemporary American life. Opportunities are provided for students to explore their own lives and their fellow students in terms of the concepts presented in the course.

SO208 MARRIAGE AND THE FAMILY

Analysis of the family as a changing institution in the United States. Topics include child-rearing patterns, mate selection, marriage, divorce, sex roles and human sexuality, problems such as child abuse, and an examination of alternative family forms.

SO209 QUALITATIVE METHODOLOGY (Spring)

An introduction to participant observation research. Includes a review of the participant-observation literature, and will focus on the student's own field research project.

SO210 URBAN SOCIOLOGY (Spring)

An examination of the city, past and present; urban living, demographic and survey data applied to the city; and urban problems.

SO211 PROBLEMS AND POLICIES IN EDUCATION (Spring)

An examination of the social functions of schooling in American society. Topics include political power in public education; schooling and social class; schools as an agency of socialization; the social determinants of school achievement; and the issues surrounding the racial desegregation of schools.

SO212 POLITICAL SOCIOLOGY (Spring)

The study of political behavior; the impact of social forces on voting behavior; an analysis of pressure groups, and responses to blocking of legitimate political channels as well as the social basis for political parties, and the nature of the modern state.

SO213 MEDICAL SOCIOLOGY (Fall)

This course deals with sociological implications of health and illness. Topics included are sociocultural definitions of health and disease, medical theories as practiced in different societies, and hospitals as social organizations.

SO214 SOCIAL CHANGE (Spring)

Analysis of the processes of social change as they specifically apply to the dynamic between both traditional and advanced societies and between competing advanced nations. Emphasis will be placed on a sociology of development and the basis of modern imperialism.

SO215 SOCIOLOGY OF SEX ROLES (Fall)

An examination of the causes and effects of sex role definitions in America. Special attention will be given to the impact of sex roles in the labor force and in the family.

SO216 SOCIOLOGY OF OCCUPATIONS AND PROFESSIONS (Spring)

The meaning of work historically and in contemporary society. The natural history of occupations, specialization and the process of professionalization. Analysis of occupational remuneration, control, authority and status systems, and concepts of career, license and mandate.

SO217 SOCIOLOGY OF BUREAUCRATIC ORGANIZATIONS

Theories of bureaucracy as they apply to such formal organizations as the government, the economy, religion, the military, and education. Case studies will be introduced and post-bureaucratic forms will be examined.

SO218 SOCIAL MOVEMENTS (Fall)

Analysis of selected social movements. Among the movements which may be selected are: labor movement, Black liberation movement and women's movement.

SO219 SOCIOLOGY OF DEVIANCE AND SOCIAL CONTROL (Spring)

Focus is on the formal and informal responses to deviant modes of behavior ranging from law breaking to simple non-conformity. Institutions such as prisons and hospitals as well as agents of social control such as police and psychiatrists will be studied.

SO220 SOCIAL PROBLEMS (Spring)

Selected major contemporary social problems will be examined. Among the topics which may be included are inequality, racism, corporate power, and sexism.

SO231 WOMEN IN CONTEMPORARY SOCIETY (Fall)

Structural analysis of women's roles with primary focus on the areas of sexuality, the family, socialization, and work. The approach will be interdisciplinary and will include a comparison among the different historical forms women's roles have taken, with special emphasis on the future development of the women's movement.

SO232 WOMEN AND WORK

An analysis of the position of women in the labor force, historical perspectives on "women's work," and the causes of female occupational patterns, including sex discrimination. Attention will be paid to the conditions of work for women in a variety of work settings, obstacles to careers for women, and alternatives to current patterns.

SO235 SOCIOLOGY OF GAY PEOPLE

A survey of the place of gay women and men within existing societies; particular emphasis on the social structure of the gay community in the United States.

SO250 INTRODUCTION TO SOCIAL WORK (Spring)

The course will focus on the introduction of the student to the different roles played by the social worker, the values and activities of social work as a profession, the settings in which social work is practiced, and the methods employed by the social worker in providing services.

SO251 SOCIAL WELFARE (Fall)

A study of society's provisions for social welfare and the relationship of welfare policies to the political and socio-economic structure of society.

SO252 PRACTICUM IN SOCIAL WELFARE (Fall)

Students spend eight hours a week in supervised social work experience and write a paper. Class seminar deals with the practical and theoretical aspects of social work and social agency organizational structure.

SO253 PRACTICUM IN SOCIAL WELFARE (Spring)

This course is for students who wish to continue their practicum experience for a second semester.

SO254 CHILD WELFARE (Fall)

A study of policies and programs affecting children, with a special focus on child care outside of or as a supplement to care in the biological family. Includes foster care, adoption, family day care, homemaker service, and day care centers.

SO257 SOCIOLOGY OF MENTAL HEALTH AND ILLNESS

Factors in mental health and illness from the perspective of family structure, socio-economic status, social deviance, institutional structure, and mental patients' views. Includes study of the daily life of the mental patient, public policy, and legal issues.

SO301 SOCIAL INTERACTION (Fall)

Prerequisites: Any 9 credits in sociology and prior consent of instructor. This course is designed to increase the student's awareness of, and competence in dealing with, the rich variety of intrapersonal and interpersonal messages flowing within and among the class members themselves. The class will be limited to 15 persons.

SO304 SOCIAL THEORIES OF MARX & ENGELS (Spring)

Prerequisites: SO202 or consent of instructor. An analysis of the thought of Karl Marx, Frederick Engels and related theorists particularly as applied to the United States. Topics included are: scientific socialism, development of capitalism, imperialism, theories of transition to socialism, contemporary socialist society.

SO310 THE COMMUNITY (Spring)

Prerequisites: SO210 or consent of instructor. Developments in American community studies with special emphasis on the study of a specific neighborhood or community. Community organization efforts to meet the needs of the people in that community will be examined in depth.

SO315 RELIGION AND CONTEMPORARY SOCIETY

The nature of religion as a social institution. Topics include religious organizations — structure and process and the relationship of religious phenomena and formal religious institutions to other social institutions and processes.

SO322 SOCIOLOGY OF THE AMERICAN WORKING CLASS (Spring)

The contemporary American working class: its class formation, ideology, institutions; racial, ethnic and sexual distinctions in creating a specifically American working class. Methods of work; relations on-the-job; working class culture in the community and at home.

SO350 POPULAR CULTURE AND MASS COMMUNICATIONS

An examination of modern forms of popular culture including advertising. Specific media will be analyzed including television, radio, movies, and popular novels.

SO410 SEMINAR ON THE INNER CITY (Spring)

Prerequisites: SO210, SO206, or consent of the instructor. Open only to senior majors. In depth analysis and evaluation of a problem evolving from the changing social and demographic characteristics of core areas of cities. The problem will be chosen among the following: employment, housing, crime, education. Research papers based on field work to be presented in class.

SO490 SPECIAL TOPICS IN SOCIOLOGY

Independent research on a topic determined by the student in consultation with his advisor. All faculty available.

ANTHROPOLOGY

Elizabeth Useem, Ed.D., Chairperson

Associate Professors Ecklein, Raymond, Useem. Assistant Professor Fiorillo.

A minor in anthropology is available for all interested students. A minor is comprised of 18 semester hours of which only AN201 is required.

The following courses may be cross-registered towards a minor in anthropology:

- | | |
|--------------------------------|-------|
| a. Introduction to Linguistics | LL411 |
| b. Quantitative Methodology | SO204 |
| c. Culture and Personality | SO207 |

All courses meet every semester unless otherwise indicated.

AN201 CULTURAL ANTHROPOLOGY

The student is introduced to topics such as: the nature and content of culture; culture in time; aspects of culture including the family, kin, religion, cultural values and culture changes.

AN202 PHYSICAL ANTHROPOLOGY (Fall)

An introduction to the field. Subject matter includes primate and human anatomy; fossil man and his evolution; and problems of racial classification and racism.

AN203 INTRODUCTORY ARCHAEOLOGY (Spring)

An introduction to the field. A worldwide survey of the evolution of cultures through time.

AN204 CONTEMPORARY ISSUES IN ANTHROPOLOGICAL PERSPECTIVE (Fall)

An anthropological perspective on some of the major issues which have been raised over the past decade concerning the basis of human behavior. Topics covered will include but not be limited to aggression, territoriality, sex roles, I.Q., technology, and gene manipulation, extra-terrestrial influences, etc.

AN205 TRIBAL CULTURES IN THE MODERN WORLD

The cultural context of tribal cultures in the modern world, the impact of conquest, and the concomittant inclusion into larger political and economic systems.

AN209 PREHISTORY AND CULTURES OF MEXICO AND PERU (Spring)

The results of recent anthropological research in the area from Mexico southwards to Peru. It includes the investigation of such problems as the impact of modernization and land reform on social structure.

AN210 NATIVE PEOPLES OF NORTH AMERICA (Fall)

Prehistory and the diversity of cultures from the Eskimo to the Wampanoag. The impact of conquest.

AN211 NATIVE PEOPLES OF SOUTH AMERICA

Prehistory and the diversity of cultures from the Siriono to the Incas. The impact of conquest on the indigenous cultures.

AN212 CULTURES OF BLACK AFRICA

Peoples, prehistory and cultures of Africa; the spectrum of cultures ranging from Bushmen hunters to the Ashanti Federation.

AN214 MALE-FEMALE RELATIONSHIPS IN DIFFERENT CULTURES

The position, role, function, and status of women and men in selected non-western societies. The position of women and men in evolutionary perspective.

AN300 RESEARCH METHODS IN ANTHROPOLOGY

The application of anthropological techniques with an emphasis on participant observation. The planning and carrying out of a small scale research project.

AN301 PRIMATE ETHOLOGY

The varieties of the social behavior of non-human primates. An investigation of the roots of man's primate heritage as it impinges on his social behavior.

AN302 COMPARATIVE SOCIAL STRUCTURES

A comparison of the social structures of selected non-European cul-

tures. Stress is on the meaning of structure and system.

AN303 PRIMITIVE RELIGIONS (Spring)

The relationship between religious institutions and society on a cross cultural basis. The function of magic and the relationship between religion and the formation of social movements.

AN304 CULTURAL ECOLOGY

The interrelationship of culture and environment in nonliterate cultures. Cultures of the Arctic. Temperate and Tropic regions are covered. Both archaeological and ethnographic sources are used.

AN306 HISTORY OF ANTHROPOLOGICAL THEORY

The growth and development of anthropological theory from Maine, Bachofen and Morgan to Radcliffe-Brown and Malinowski.

AN320 ARCHAEOLOGICAL FIELD WORK

6 S.H.

Entrance only by permission of the Department Chairperson. The methodology of archaeological field work. Includes the excavation of a local prehistoric or early colonial site. Two semester optional.

AN390 PRO SEMINAR IN ANTHROPOLOGY

Permission of the Instructor or Department Chairperson. The investigation of selected topics from an anthropological perspective.

AN490 SPECIAL TOPICS IN ANTHROPOLOGY

Independent research on a topic determined by the student in consultation with his advisor. All faculty available.

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NOTES

Calendar

FALL SEMESTER 1977

September 6	Tuesday	Classes begin
October 10	Monday	Holiday, Columbus Day
November 11	Friday	Holiday, Veterans' Day
November 24-25	Thursday-Friday	Thanksgiving Recess
December 13	Tuesday	Last day of classes
December 14	Wednesday	Final Examinations begin
December 23	Friday	Final Examinations end
December 25 - January 22, 1978		Vacation
January 20, 1978	Friday	Make-up Examination Day

SPRING SEMESTER 1978

January 23	Monday	Classes begin
February 20	Monday	Holiday, Washington's Birthday
March 17-26		Spring Recess
April 17	Monday	Holiday, Patriot's Day
May 17	Wednesday	Last day of classes
May 18	Thursday	Final Examinations begin
May 29	Monday	Holiday, Memorial Day
May 30	Tuesday	Final Examinations end
May 31	Wednesday	Make-up Examination Day

STUDENT TEACHING DATES

Elementary Education:

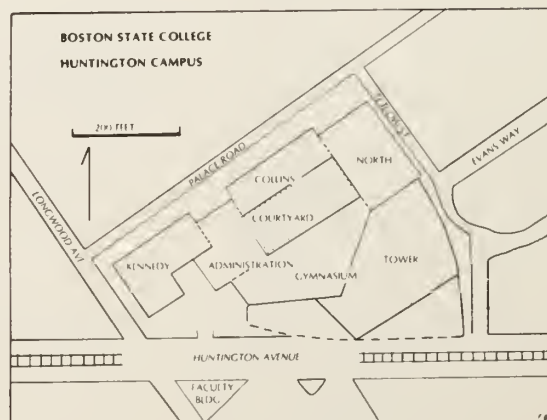
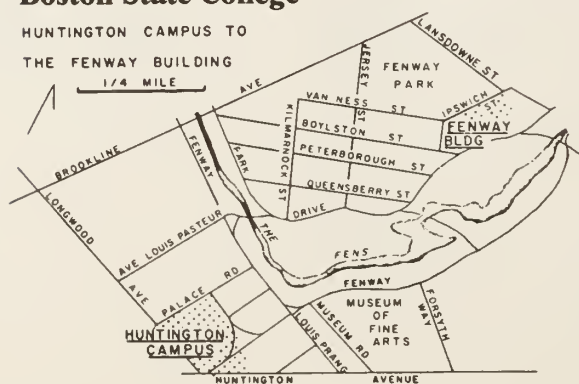
Fall, 1977	Full Semester — September 7-December 23 First Quarter — September 7-October 28 Second Quarter — October 31-December 23
Spring, 1978	Full Semester — January 23-May 19 First Quarter — January 23-March 24 Second Quarter — March 27-May 19

Secondary Education:

Fall, 1977	Full Semester — September 12-December 23
	First Quarter — September 12-October 29
	Second Quarter — November 1-December 23
Spring, 1978	Full Semester — January 24-May 26
	First Quarter — January 24-March 24
	Second Quarter — March 27-May 26

Boston State College

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